

Prepared: 5/05

## MATERIAL SAFETY DATA SHEET

E-Z PREMIUM SOLVENT TERPENTENE

**EMERGENCY CONTACT**: FOR CHEMICAL EMERGENCY - SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL CHEMTREC AT 1-(800)-424-9300, DAY OR NIGHT.

<u>INDEX</u>	<u>HMIS</u>		<u>NFPA</u>	
4 - Severe	Health	1	Health	1
3 - Serious	Flammability	2	Flammability	2
2 - Moderate	Reactivity	0	Reactivity	0
1 - Slight				
0 - Insignificant				

## Section 2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	CAS Number	% (by volume)
Aliphatic Hydrocarbons (Stoddard Type)	8052-41-3	73.0- 77.0
Aromatic Petroleum Distillates	64742-95-6	23.0- 27.0
1,2,4 - Trimethylbenzene	95-63-6	8.0
1,3,5 - Trimethylbenzene	108-67-8	1.0- 4.6
Xylene	1330-20-7	1.8

## Section 3. HAZARDS IDENTIFICATION

## POTENTIAL HEALTH EFFECTS:

EYE:

May cause mild eye irritation. Symptoms include stinging, tearing, and redness. Additional symptoms of eye exposure may include: blurred vision.

SKIN:

May cause mild skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying and cracking of skin, and skin burns. Additional symptoms of skin contact may include: skin blistering.

### SWALLOWING:

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

### INHALATION:

Breathing of vapor or mist is possible. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful.

## SYMPTOMS OF EXPOSURE:

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: redness of the face and neck, stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), central nervous system excitation (giddiness, liveliness, light-headed feeling) followed by central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness) and other central nervous system effects, respiratory depression (slowing of the breathing rate), loss of coordination, confusion, irregular heartbeat and death.

#### TARGET ORGAN EFFECTS:

Exposure to this material (or a component) has been found to cause kidney damage in male rats. The mechanism by which this toxicity occurs is specific to the male rat and the kidney effects are not expected to occur in humans. Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals: blood abnormalities, cataracts, effects on hearing and central nervous system damage.

DEVELOPMENTAL INFORMATION:

No data

CANCER INFORMATION:

No data

OTHER HEALTH EFFECTS:

No data

PRIMARY ROUTE(S) OF ENTRY:

Inhalation, skin absorption, skin contact and ingestion.

## Section 4. FIRST AID MEASURES

EYES:

If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.

SKIN:

Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before re-use.

SWALLOWING:

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

INHALATION:

If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

NOTE TO PHYSICIANS:

Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity (See Section 3 - Swallowing) when deciding whether to induce vomiting. Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: skin, lung (for example, asthma - like conditions), blood-forming system and eye. Individuals with preexisting heart disorders may be more susceptible to arrhythmias (irregular heartbeats) if exposed to high concentrations of this material.

## Section 5. FIRE FIGHTING MEASURES

FLASH POINT:

100.0 - 110.0 F (37.7 - 43.3 C) TCC

EXPLOSIVE LIMIT:

(for component) Lower 1.0%

Upper 0.0%

**AUTOIGNITION TEMPERATURE:** 

No data

HAZARDOUS PRODUCTS OF COMBUSTION:

May form: carbon dioxide and carbon monoxide, various hydrocarbons.

#### FIRE AND EXPLOSION HAZARDS:

Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, other flames and ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) car ignite explosively.

## EXTINGUISHING MEDIA:

Regular foam, carbon dioxide, dry chemical.

## FIRE FIGHTING INSTRUCTIONS:

Wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.

## Section 6. ACCIDENTAL RELEASE MEASURES

#### SMALL SPILL:

Absorb liquid on vermiculite, floor absorbent or other absorbent material.

## LARGE SPILL:

Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams or other bodies of water. Prevent from spreading. If run-off occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soi and other materials to containers for disposal. Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred.

## Section 7. HANDLING AND STORAGE

### HANDLING:

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. All five gallon pails and larger metal containers including tank cars and tank trucks should be grounded and/or bonded when material is transferred. Hydrocarbon solvents are basically non-conductors of electricity and can become electrostatically charged during mixing, filtering or pumping at high flow rates. If this charge reaches a sufficiently high level, sparks can form that may ignite the vapors of flammable liquids. WARNING. Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into vacuum equipment, may result in ignitions without the presence of obvious ignition sources. Published "autoignition" or "ignition" temperature values cannot be treated as safe operating temperatures in chemical processes without analysis of the actual process conditions. Any use of this product in elevated temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions. Do NOT store in confined areas such as trailers.

## Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## **EYE PROTECTION:**

Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. Consult your safety representative.

### SKIN PROTECTION:

Wear resistant gloves (consult your safety equipment supplier). To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

## RESPIRATORY PROTECTIONS:

If workplace exposure limit(s) of product or any component is exceeded (see exposure guidelines), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

### **ENGINEERING CONTROLS:**

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below

TLV(s).

## **EXPOSURE GUIDELINES:**

**COMPONENT** 

ALIPHATIC HYDROCARBONS (STODDARD TYPE) (8052-41-3)

OSHA PEL 500.000 ppm - TWA OSHA VPEL 100.000 ppm - TWA ACGIH TLV 100.000 ppm - TWA

AROMATIC PETROLEUM DISTILLATES (64742-95-6)

No exposure limits established.

1,2,4-TRIMETHYLBENZENE (95-63-6)

No exposure limits established.

1,3,5-TRIMETHYLBENZENE (108-67-8)

No exposure limits established.

XYLENE (1330-20-7)

OSHA PEL 100.000 ppm - TWA

OSHA VPEL 100.000 ppm - TWA

OSHA VPEL 150.000 ppm - STEŁ

ACGIH TLV 100.000 ppm - TWA

ACGIH TLV 150.000 ppm - STEL

## Section 9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: (for component) 308.0 - 335.0 F (153.3 - 168.3 C) @ 760 mmHg

VAPOR PRESSURE: (for component) 3.000 mmHg @ 68.00 F

SPECIFIC VAPOR DENSITY: >1.000 @ AIR = 1

SPECIFIC GRAVITY: .811 @ 77.00 F

LIQUID DENSITY: 6.750 lbs/gal @ 77.00 F .811 kg/l @ 25.00 C

PERCENT VOLATILES: 100%

EVAPORATION RATE: Slower than ethyl ether

APPEARANCE: No data

STATE: Liquid

PHYSICAL FORM: Homogeneous solution

COLOR: No data

ODOR: No data

pH: Not applicable

## Section 10. STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION:

Product will not undergo hazardous polymerization.

HAZARDOUS DECOMPOSITION:

May form: carbon dioxide and carbon monoxide, various hydrocarbons.

CHEMICAL STABILITY:

Stable.

INCOMPATIBILITY:

Avoid contact with: strong oxidizing agents.

## Section 11. TOXICOLOGICAL INFORMATION

No data

## Section 12. ECOLOGICAL INFORMATION

No data

## Section 13. DISPOSAL CONSIDERATION

## WASTE MANAGEMENT INFORMATION:

Dispose of in accordance with all applicable local, state and federal regulations.

## Section 14. TRANSPORT INFORMATION

DOT INFORMATION - 49 CFR 172.101

DOT DESCRIPTION:

PAINT RELATED MATERIAL

CONTAINER/MODE:

55 Gal Drum/5 Gal Pail/Gallon/Quart

RQ (Reportable Quantity) - 49 CFR 172.101

Product Quantity (lbs)

Component

9242

Xylenes (O-, M-, P- Isomers)

## OTHER TRANSPORTATION INFORMATION

The DOT Transport Information may vary with the container and mode of shipment.

## Section 15. REGULATORY INFORMATION

## **US FEDERAL REGULATIONS**

TSCA (Toxic Substances Control Act) Status

TSCA (UNITED STATES) The intentional ingredients of this product are listed.

CERCLA RQ - 40 CFR 302.4 (a)

Component

RQ (lbs)

XYLENES (O-, M-, P- ISOMERS)

100

SARA 302 Components - 40 CFR 355 Appendix A

None

Section 311/312 Hazard Class - 40 CFR 370.2

Immediate (X) Delayed (X)

Fire (X)

Reactive ( )

Sudden Release of Pressure ( )

SARA 313 Components - 40 CFR 372.65

Section 313 Component(s) 1,2,4-TRIMETHYLBENZENE

CAS Number 95-63-6 <u>%</u> 7.62

XYLENE (MIXED ISOMERS)

1330-20-7

1.75

OSHA Process Safety Management 29 CFR 1910
None listed
EPA Accidental Release Prevention 40 CFR 68
None listed

## INTERNATIONAL REGULATIONS INVENTORY STATUS

Not Determined

## STATE AND LOCAL REGULATIONS

### **CALIFORNIA PROPOSITION 65**

The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986: This product contains the following substance(s) known to the state of California to cause cancer.

BENZENE

The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986: This product contains the following substance(s) known to the state of California to cause reproductive harm.

TOLUENE BENZENE

### NEW JERSEY RTK LABEL INFORMATION

STODDARD SOLVENT 8052-41-3
PSEUDOCUMENE 95-63-6
1,3,5-TRIMETHYLBENZENE 108-67-8
XYLENES 1330-20-7

## PENNSYLVANIA RTK LABEL INFORMATION

STODDARD SOLVENT 8052-41-3 PSEUDOCUMENE 95-63-6 BENZENE, DIMETHYL- 1330-20-7

E.E. Zimmerman/Elroy Turpentine Company believes that the technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, express or implied, and we assume no responsibility for any loss, damage, or expense, direct or consequential, arising out of their use.



## SAFETY DATA SHEET

## Section 1. Identification

Trade name

: E6000 - Clear

Product code

: 1000132

Date of issue/Date of

. 1000.02

revision

: 2/5/2015.

Supplier

: Eclectic Products Inc. 1075 Arrowsmith

Eugene, OR 97402 541-484-9621

Responsible name

: Regulatory Compliance

Emergency telephone

: CALL INFOTRAC 800-535-5053

number (with hours of

001-352-323-3500

operation)

24 hours per day, 7 days per week.

Relevant identified uses of the substance or mixture and uses advised against

Adhesive.

## Section 2. Hazards identification

OSHA/HCS status

: This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Classification of the substance or mixture

: SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B

CARCINOGENICITY - Category 1B

**GHS label elements** 

Hazard pictograms



Signal word

: Danger

Hazard statements

: Causes skin and eye irritation.

May cause cancer.

Precautionary statements

General

: Read label before use. Keep out of reach of children. If medical advice is needed,

have product container or label at hand.

Prevention

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves. Wear eye or face protection. Wash hands thoroughly after handling.

Response

: IF exposed or concerned: Get medical attention. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. If eye irritation persists: Get medical attention.

Storage

: Store locked up.

Disposal

: Dispose of contents and container in accordance with all local, regional, national and

international regulations.

Hazards not otherwise

classified

: None known.

E-6000 LV CLEAR BULK (NON-FLAM)

## Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
1 Out do the total justice	60-100% 10-30%	127-18-4 9003-55-8

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

## Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10

minutes. Get medical attention.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If

not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may

need to be kept under medical surveillance for 48 hours.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing

before reuse. Clean shoes thoroughly before reuse.

Ingestion : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and

keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing

such as a collar, tie, belt or waistband.

## Most important symptoms/effects, acute and delayed

## Potential acute health effects

**Eve contact** : Causes serious eye irritation.

Inhalation : Exposure to decomposition products may cause a health hazard. Serious effects may

be delayed following exposure.

Skin contact : Causes skin irritation.

Ingestion : Irritating to mouth, throat and stomach.

Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

pain or irritation

watering redness

Inhalation : No specific data.

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## Section 4. First aid measures

: Adverse symptoms may include the following: Skin contact

> irritation redness

Ingestion : No specific data.

## Indication of immediate medical attention and special treatment needed, if necessary

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. Notes to physician

The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : No specific treatment.

: No action shall be taken involving any personal risk or without suitable training. If it is Protection of first-aiders

suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water

before removing it, or wear gloves.

## See toxicological information (Section 11)

## Section 5. Fire-fighting measures

## Extinguishing media

Suitable extinguishing

media

Unsuitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

: None known.

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products : Decomposition products may include the following materials:

carbon dioxide carbon monoxide

halogenated compounds

carbonyl halides

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable

training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

## Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

## Section 6. Accidental release measures

## Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

## Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Avoid exposure obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

### Control parameters

## Occupational exposure limits

Ingredient name	Exposure limits
Tetrachloroethylene	ACGIH TLV (United States, 3/2012). Notes: Substance identified by other sources as a suspected or confirmed human carcinogen. Substances for which there is a Biological Exposure Index or Indices Substances for which the TLV is higher than the OSHA Permissible Exposure Limit (PEL) and/or the NIOSH Recommended Exposure Limit (REL). See CFR 58(124):36338-33351, June 30, 1993, for revised OSHA PEL. Refers to Appendix A Carcinogens.  STEL: 685 mg/m³ 15 minutes.  STEL: 100 ppm 15 minutes.  TWA: 170 mg/m³ 8 hours.
	TWA: 25 ppm 8 hours. OSHA PEL 1989 (United States, 3/1989). Notes: See Table Z-2.
	TWA: 170 mg/mÂ <sup>3</sup> 8 hours.
	TWA: 25 ppm 8 hours.
	OSHA PEL Z2 (United States, 11/2006).

E-6000 LV CLEAR BULK (NON-FLAM)

## Section 8. Exposure controls/personal protection

AMP: 300 ppm 5 minutes.

CEIL: 200 ppm

TWA: 100 ppm 8 hours.

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## Individual protection measures

: Wash hands, forearms and face thoroughly after handling chemical products, before Hygiene measures

eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety

showers are close to the workstation location.

: Safety eyewear complying with an approved standard should be used when a risk Eye/face protection

assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

: Chemical-resistant, impervious gloves complying with an approved standard should be Hand protection

worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the

protection time of the gloves cannot be accurately estimated.

: Personal protective equipment for the body should be selected based on the task being **Body protection** 

performed and the risks involved and should be approved by a specialist before

handling this product.

: Appropriate footwear and any additional skin protection measures should be selected Other skin protection based on the task being performed and the risks involved and should be approved by a

specialist before handling this product.

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved Respiratory protection

standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe

working limits of the selected respirator.

## Section 9. Physical and chemical properties

<u>Appearance</u>

Physical state : Liquid. : Clear. Color

: Not available. Odor : Not available. pН

: 121.11°C (250°F) **Boiling point** : Closed cup:None. [Setaflash. ASTM D3828]

Flash point

: Non-flammable mixture. Flammability

: <1 (Water = 1) **Evaporation rate** : Not available. Lower and upper explosive

(flammable) limits

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## Section 9. Physical and chemical properties

Vapor pressure : 1.7 kPa (13 mm Hg) [room temperature]

Vapor density : >1 [Air = 1] Specific gravity : 1.35 to 1.37

**Solubility**: Very slightly soluble in the following materials: water.

VOC (wt%) : 0.10-0.12% Viscosity : Not available.

## Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous

reactions

products

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

Hazardous decomposition

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

## Section 11. Toxicological information

## Information on toxicological effects

## **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Tetrachloroethylene	LD50 Oral	Rat	2629 mg/kg	_

## Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Tetrachloroethylene	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Mild irritant	Rabbit	-	162 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Severe irritant	Rabbit	. –	24 hours 810 milligrams	-
Styrene Butadiene Copolyme	r Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

### Sensitization

Not available.

## **Mutagenicity**

Not available.

## Carcinogenicity

Not available.

Conclusion/Summary : Contains material which may cause cancer, based on animal data. Risk of cancer

depends on duration and level of exposure.

### Classification

Product/ingredient name	OSHA	IARC	NTP
Tetrachloroethylene	-	2A	Reasonably anticipated to be a human carcinogen.

## Reproductive toxicity

Not available.

## Section 11. Toxicological information

## **Teratogenicity**

Not available.

## Specific target organ toxicity (single exposure)

Not available.

## Specific target organ toxicity (repeated exposure)

Not available.

## Aspiration hazard

Not available.

Information on the likely routes of exposure

: Routes of entry anticipated: Dermal, Inhalation.

## Potential chronic health effects

Not available.

: No known significant effects or critical hazards. General

: May cause cancer. Risk of cancer depends on duration and level of exposure. Carcinogenicity

: No known significant effects or critical hazards. Mutagenicity : No known significant effects or critical hazards. Teratogenicity **Developmental effects** : No known significant effects or critical hazards. : No known significant effects or critical hazards. Fertility effects

## Numerical measures of toxicity

### Acute toxicity estimates

Route	ATE value
Oral	3699.8 mg/kg

## Section 12. Ecological information

## **Toxicity**

Product/ingredient name	Result	Species	Exposure
Tetrachloroethylene	Acute EC50 200 µg/l Marine water	Algae - Skeletonema costatum	72 hours
Tetracino octryiene	Acute EC50 >500000 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 7500 µg/l Fresh water	Daphnia - Daphnia magna - Instar	48 hours
	Acute LC50 3.5 mg/l Marine water	Crustaceans - Elminius modestus	48 hours
	Acute LC50 4000 µg/l Fresh water	Fish - Jordanella floridae - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic EC10 1.77 mg/l Fresh water	Algae - Chlamydomonas reinhardtii - Exponential growth phase	72 hours
	Chronic NOEC >0.4 mg/l Fresh water Chronic NOEC 500 µg/l Fresh water	Daphnia - Daphnia magna Fish - Pimephales promelas - Larvae	21 days 32 days

## Persistence and degradability

Not available.

## Section 12. Ecological information

Other adverse effects : No known significant effects or critical hazards.

## Section 13. Disposal considerations

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

DOT Classification	TDG Classification	IMDG	IATA
1897	1897	1897	8000
Tetrachloroethylene mixture	Tetrachloroethylene mixture	Tetrachloroethylene mixture	Consumer commodity
6.1	6.1	6.1	9
III	III	III	III
No.	No.	Yes.	No.
	Tetrachloroethylene mixture  6.1	1897  Tetrachloroethylene mixture  6.1  6.1  6.1  III	1897  Tetrachloroethylene mixture  6.1  6.1  6.1  6.1  III  III  III  III

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

## Section 15. Regulatory information

U.S. Federal regulations

: United States inventory (TSCA 8b): All components are listed or exempted.

**SARA 311/312** 

Classification : Immediate (acute) health hazard Delayed (chronic) health hazard

**SARA 313** 

	Product name	CAS number	%
Form R - Reporting requirements	Tetrachloroethylene	127-18-4	60-100
Supplier notification	Tetrachloroethylene	127-18-4	60-100

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

## California Prop. 65

## Section 15. Regulatory information

WARNING: This product contains a chemical known to the State of California to cause cancer.

WARNING: This product contains less than 1% of a chemical known to the State of California to cause birth defects or

other reproductive harm.

Reproductive Ingredient name Cancer

No. Yes. Tetrachloroethylene Yes. No. Methanol

: Class D-1B: Material causing immediate and serious toxic effects (Toxic). WHMIS (Canada)

Class D-2A: Material causing other toxic effects (Very toxic).

Class D-2B: Material causing other toxic effects (Toxic).

: All components are listed or exempted. Canada inventory

International regulations

: Australia inventory (AICS): Not determined. International lists

China inventory (IECSC): All components are listed or exempted.

Japan inventory: Not determined.

Korea inventory: All components are listed or exempted. Malaysia Inventory (EHS Register): Not determined.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

Philippines inventory (PICCS): All components are listed or exempted.

Taiwan inventory (CSNN): Not determined.

: Not determined. **EU Inventory** 

## Section 16. Other information

## National Fire Protection Association (U.S.A.)



Key to abbreviations

: ATE = Acute Toxicity Estimate

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

UN = United Nations

References

: Not available.

▼ Indicates information that has changed from previously issued version.

## Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

## MATERIAL SAFETY DATA SHEET

This document has been prepared to meet the requirements of the U.S. OSHA Hazard Communication Standard 29 CFR 1910.1200, the EU Directive, 91/155/EEC and other regulatory requirements.

## 1. Company and Product Identification

Product: DR-G-006 EcoSMART Commercial

Crawling Insect Killer (DR-G-006)

Manufacturer: EcoSMART Technologies, Inc. 318 Seaboard Lane, Suite 208

Franklin, TN 37067

Emergency Telephone Number: Info Trac Chemical Response System

(800) 535-5053 (24 hours)

For General Information:

(888) 326-SAFE (9am to 5pm EST)

## 2. Ingredients

Ingredient Name Active Ingredients:	% by weight	CAS#	Exposure Limits
Blend of essential oils	7.0%	=	None established
Inert Ingredients: Carbon dioxide (propellant) Emulsifier Proprietary Solvent Blend Water	3.0% 0.2% 40.0% to 100%	124-38-9 8002-43-5 Not Applicable 7732-18-5	TWA: 5000ppm None established None established None established

## 3. Hazards Identification

Potential Health Effects: ...........May be harmful if swallowed or inhaled. May cause eye irritation. Avoid

breathing spray mist. Avoid contact with skin, eyes or clothing.

<u>Flammable:</u> ...... Contents under pressure. Do not use or store near heat or open flame.

Do not puncture or incinerate container. Exposure to temperature above

130°F may cause bursting.

## 4. First Aid Measures

CAUTION: Avoid contact with eyes.

IF IN EYES: Flush with plenty of water.

IF ON SKIN: Wash with soap and water.

**IF INHALED:** Move exposed person(s) to fresh air.

IF INGESTED: Rinse mouth out with water. Do not induce vomiting. Seek medical attention if

necessary.

## 5. Fire Fighting Measures

6. Spill/Leak Procedures

Should the container begin to leak (if accidentally punctured for example) allow the contents to discharge completely in a well-ventilated area. When the contents have been completely discharged, absorb any liquid residue with an inert absorbent material and dispose of the empty container and absorbent material in accordance with local ordinances. Components of this product are not considered EPA hazardous wastes.

## 7. Handling and Storage

Store in a cool, dry place. Do not use or store near heat, flames or hot surfaces. Do not smoke while using product. Do not use product on or in electrical equipment. Foods and eating utensils should be removed or covered when this product is used. Food processing equipment should be covered and/or wiped down after use. No smoking or eating in the product handling area.

Disposal: When container is empty, recycle if available. If recycling is not available, wrap and place the empty container in a trash collector. Keep out of the reach of children and animals.

## 8. Exposure Control/Personal Protection

Ventilation: Local exhaust ventilation is not required.

Respiratory Protection: Not required with adequate ventilation.

Eye Protection: Not required. Safety glasses are recommended during volumetric treatments.

Gloves: Not required.

Other Protective equipment: Not required.

## 9. Physical Properties

Appearance: White liquid Specific Gravity (water =1): 0.95 g/ml

Odor: sweet floral / minty scent

## 10. Stability and Reactivity

## EcoSMART Commercial Crawling Insect Killer (DR-G-006) Page 3 of 3

Chemical Stability: ...... Stable Hazardous Polymerization: ...... Will not occur

## 11. Toxicological Information

Rat Acute Oral: ......Not Determined

Acute effects from Overexposure: ......The individual components of this product are known to

have low oral and dermal toxicity. This mixture is expected to have a similar toxicological profile. Prolonged contact with the skin may cause irritation, and contact with the eyes may cause eye irritation. Inhalation of the vapor may cause irritation of nasal passages and/or dizziness. Ingestion of this product could result in irritation of the gastrointestinal tract, headache or

nausea.

Chronic Effects from Overexposure: ......No data are available.

## 12. Environmental Information

While specific data regarding toxicity to fish or other aquatic organisms is not available for this product, care should always be taken to prevent insecticides from entering aquifers.

## 13. Disposal

The aerosol container is not refillable. When container is empty, recycle if available. If recycling is not possible, wrap the container and dispose of with ordinary trash.

## 14. Transportation Information

Proper Shipping Name: Consumer Commodity DOT Hazard Class: ORM-D

## 15. Regulatory Information

NFPA Ratings: Health - 1 Fire - 1 Reactivity - 0 Special - none

**TSCA:** No ingredients in this product are listed on the TSCA Inventory.

SARA Title III: This product does not contain any ingredients subject to Section 313 (40 CFR

372) reporting requirements.

## **EDTA Disodium Salt, Dihydrate**



## Section 1

## **Product Description**

**Product Name:** EDTA Disodium Salt, Dihydrate **Recommended Use:** Science education applications

Synonyms: Disodium (Ethylenedinitrilo) Tetraacetic Acid, Disodium Edetate, EDTA Sodium

**Distributor:** Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

## Section 2

## **Hazard Identification**

Classification of the chemical in accordance with paragraph (d) of §1910.1200;





Harmful if swallowed. Toxic to aquatic life.

#### **GHS Classification:**

Hazardous to the aquatic environment - Acute Category 2, Acute Toxicity - Oral Category 4

Acute Toxicity Dermal Contains
Acute Toxicity Inhalation Gas

100 % of the mixture consists of ingredient(s) of unknown toxicity
100 % of the mixture consists of ingredient(s) of unknown toxicity

Contains

Acute Toxicity Inhalation Vapor 100 % of the mixture consists of ingredient(s) of unknown toxicity

Contains

Acute Toxicity Inhalation Dust/Mist 100 % of the mixture consists of ingredient(s) of unknown toxicity

**Contains** 

## Section 3 Composition / Information on Ingredients

Chemical NameCAS #%Ethylenediaminetetraacetic Acid, Disodium Salt, Dihydrate (EDTA Sodium)6381-92-6100

## **Section 4**

## First Aid Measures

### **Emergency and First Aid Procedures**

In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Skin Contact:** After contact with skin, wash immediately with plenty of water.

Ingestion: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

## Section 5

## **Firefighting Procedures**

Extinguishing Media: Use media suitable to extinguish surrounding fire.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide, Acetic acid

## Section 6

## Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of

employees in the area responding to the spill.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Section 7

## Handling and Storage

Handling: Wash thoroughly after handling. Do no eat, drink or smoke when using this product. Avoid release to the

environment. Avoid creating and inhaling dust. Avoid contact with skin and eyes.

Keep container tightly closed in a cool, well-ventilated place. Storage:

Storage Code: Green - general chemical storage

Section 8

## Protection Information

**OSHA PEL ACGIH** 

(TWA) (STEL) **Chemical Name** (TWA) (STEL) EDTA, Disodium Salt, Dihydrate N/A N/A N/A N/A

**Control Parameters** 

**Engineering Measures:** No exposure limits exist for the constituents of this product. General room ventilation

might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

No respiratory protection required under normal conditions of use. Provide general room **Respiratory Protection:** 

exhaust ventilation if symptoms of overexposure occur as explained Section 11. A

respirator is not normally required.

Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station

available.

Skin Protection: Not normally considered a skin hazard. Where use can result in skin contact, practice

> good personal hygiene and wear a barrier cream and/or impervious surgical style gloves. Wash hands and other exposed areas with mild soap and water before eating, drinking,

and when leaving work.

Gloves: Butyl rubber, Nitrile, Neoprene, Polyvinyl chloride

Section 9

## Physical Data

Formula: C10H14N2Na2O8 \* 2H2O Molecular Weight: 372.24

Appearance: Colorless Solid Odor: No data available

Odor Threshold: No data available

pH: 4.0 - 5.5 @ 10g/l, 23°C Melting Point: 252 C

Boiling Point: No data available Flash Point: No data available

Flammable Limits in Air: No data available

Vapor Pressure: No data available

Evaporation Rate (BuAc=1): No data available Vapor Density (Air=1): No data available Specific Gravity: No data available

Solubility in Water: Soluble

Log Pow (calculated): No data available Autoignition Temperature: No data available **Decomposition Temperature:** No data available

Viscosity: No data available

Percent Volatile by Volume: No data available

Section 10

## Reactivity Data

Reactivity: Not generally reactive under normal conditions.

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: None known.

Incompatible Materials: Strong oxidizing agents

**Hazardous Decomposition Products:** Acetic acid, Carbon dioxide, Carbon monoxide

Hazardous Polymerization: Will not occur

Section 11

## Toxicity Data

Routes of Entry Ingestion, skin and eye contact.

Symptoms (Acute): Hypocalcemia
Delayed Effects: No data available

**Acute Toxicity:** 

Chemical NameCAS NumberOral LD50Dermal LD50Inhalation LC50EDTA, Disodium Salt, Dihydrate6381-92-6Oral LD50 RatNot determinedNot determined

2000 mg/kg

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHAEDTA, Disodium Salt, Dihydrate6381-92-6Not listedNot listedNot listed

Chronic Effects:

**Mutagenicity:** No evidence of a mutagenic effect.

**Teratogenicity:** Conflicting evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect.

Reproductive: No evidence of negative reproductive effects.

**Target Organ Effects:** 

Acute: No data available
Chronic: No data available

## Section 12

## **Ecological Data**

Overview: Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.

Mobility: This material is expected to have moderate mobility in soil. It absorbs to most soil types.

**Persistence:** Dissolved into water, Photodegradation Bioaccumulation: Bioconcentration is not expected to occur.

**Degradability:** Biodegrades slowly.

Other Adverse Effects: No data

Chemical Name CAS Number Eco Toxicity

EDTA, Disodium Salt, Dihydrate 6381-92-6

## Section 13

## **Disposal Information**

**Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

## Section 14

## **Transport Information**

**Ground - DOT Proper Shipping Name:**Not regulated for transport by US DOT.

Air - IATA Proper Shipping Name:
Not regulated for air transport by IATA.

## Section 15

## **Regulatory Information**

TSCA Status: A component (or components) of this product is not listed on the TSCA Inventory of

Existing Chemical Substances. Product is for research and development use only.

Chemical Name CAS § 313 Name § 304 RQ CERCLA RQ § 302 TPQ CAA 112(2)

Number TQ

EDTA, Disodium Salt, Dihydrate 6381-92-6 No No No No No

## Section 16

## Additional Information

Revised: 11/16/2015 Replaces: 09/09/2015 Printed: 07-06-2016

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

<b>Glossary</b> ACGIH	American Conference of Governmental Industrial Hygienists	NTP OSHA	National Toxicology Program Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA IDLH	Toxic Substances Control Act Immediately dangerous to life and health

# FLINN SCIENTIFIC, INC. Safety Data Sheet (SDS)

**SDS #**: 328.61

Revision Date: February 6, 2014

## SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

## **EDTA Solution**

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word N/A

Pictograms

## **SECTION 2 — HAZARDS IDENTIFICATION**

This chemical is considered nonhazardous according to GHS classifications for the Hazard Communication Standard. Treat all laboratory chemicals with caution.

Although this material is considered to be nonhazardous, unpredictable reactions among chemicals are always possible. Prudent laboratory practices should be observed.

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Ethylenediaminetetraacetic acid, disodium salt, dihydrate Water	6381-92-6 7732-18-5	$C_{10}H_{14}N_2Na_2O_8\cdot 2H_2O$ $H_2O$	372.25 18.00	4% or less 96% or more

## **SECTION 4 — FIRST AID MEASURES**

Call a POISON CENTER or physician if you feel unwell or if irritation persists.

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

If on skin: Wash with plenty of water.

If swallowed: Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

## **SECTION 5 — FIRE FIGHTING MEASURES**

Nonflammable, noncombustible solution.

In case of fire: Use a tri-class dry chemical fire extinguisher.

NFPA CODE

None established

## **SECTION 6 — ACCIDENTAL RELEASE MEASURES**

Ventilate area. Contain the spill with sand or absorbent material and deposit in a sealed bag or container. See Sections 8 and 13 for further information.

## FLINN SCIENTIFIC, INC.

Safety Data Sheet

**EDTA Solution** 

SDS #: 328.61

Revision Date: February 6, 2014

## **SECTION 7 — HANDLING AND STORAGE**

Flinn Suggested Chemical Storage Pattern: Organic #1. Store with acids, anhydrides and peracids.

## SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection. Wash hands thoroughly after handling.

## **SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

Clear, colorless liquid. Odorless.

## SECTION 10 — STABILITY AND REACTIVITY

Shelf life: Indefinite, if stored properly.

## SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: N.A. Chronic effects: N.A. Target organs: N.A. ORL-RAT LD<sub>50</sub>: >2000 mg/kg (for EDTA, disodium salt)

IHL-RAT LC<sub>50</sub>: N.A. SKN-RBT LD<sub>50</sub>: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

## **SECTION 12 — ECOLOGICAL INFORMATION**

Data not yet available.

### **SECTION 13 — DISPOSAL CONSIDERATIONS**

Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #26b is one option.

## **SECTION 14 — TRANSPORT INFORMATION**

Shipping name: Not regulated. Hazard class: N/A, UN number: N/A.

N/A = Not applicable

## **SECTION 15 — REGULATORY INFORMATION**

Not listed.

## SECTION 16 - OTHER INFORMATION

This Safety Data Sheet (SDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific, Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of Flinn Scientific, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals.

Revision Date: February 6, 2014

## ELECTROCHEMICAL CELLS – AP CHEMISTRY LAB KIT # AP9092

## FLINN SCIENTIFIC

With the Electrochemical Cells Classic Lab Kit for AP® Chemistry, students learn how to use a voltmeter, how to calculate net ionic equations and more by constructing a microscale series of half-cells and analyzing resulting data.

## Chemicals Included:

Copper sheet, 3" x 12"
Copper(II) nitrate solution, 1 M, 100 mL
Iron(III) nitrate solution, 1 M, 100 mL
Lead foil, 3" x 12"
Lead nitrate solution, 1 M, 100 mL
Magnesium metal ribbon, pkg/15
Magnesium nitrate solution, 1 M, 100 mL
Potasium nitrate solution, 1 M, 100 mL, 2
Silver foil, 5 g
Silver nitrate solution, 1 M, 100 mL
Sodium chloride, 1 M, 150 mL
Zinc metal strips, pkg/5, 2
Zinc nitrate solution, 1 M, 190 mL

\*\*PLEASE LOOK UP CHEMICAL SDS'S INDIVIDUALLY\*\*

Section 1 Identification Page E1 of E2

Innovating Science® by Aldon Corporation "cutting edge science for the classroom"

221 Rochester Street Avon, NY 14414-9409 (585) 226-6177 CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory and industrial use only. Not for drug, food or household use.

Product BROMOTHYMOL BLUE, 0.04% AQUEOUS SOLUTION

Synonyms Bromothymol Blue, Water Solution

Section 2 Hazards identification

This substance or mixture has not been classified as hazardous according to the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals.

Signal word: Not classified Pictograms: Not classified Target organs: None known

GHS Classification: Not classified

GHS Label information: Hazard statement: Not classified

Precautionary statement: Not classified

#### Supplementary information:

Do not breathe vapors, spray or mist. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell.

#### Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3 Composition / information on ingredients						
Chemical Name	CAS#	%	EINECS			
Water	7732-18-5	99.96%	231-791-2			
Bromothymol blue, sodium salt	34722-90-2	0.04%	252-169-7			

## Section 4 First aid measures

**INGESTION:** MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

**INHALATION:** MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: MAY CAUSE EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

#### Section 5 Fire fighting measures

Suitable Extinguishing Media: Use any media suitable for extinguishing supporting fire.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: In fire conditions, water may evaporate from this solution which may cause hazardous decomposition products to be formed as dust or fume.

### Section 6 Accidental release measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Page E2 of E2 Section 7 Handling and storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, well-ventilated area away from incompatible substances. Protect from light.

Section 8	Exposure controls / personal prot	ection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Limits:	Bromothymol blue	None established	None established	None established

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

#### Physical and chemical properties Section 9

Appearance: Liquid, clear, blue-green.

Odor: No odor

Odor threshold: Data not available.

pH: Data not available.

Melting / Freezing point: Approximately 0°C (32°F) (water) Boiling point: Approximately 100°C (212°F) (water)

Flash point: Data not available

Evaporation rate (Water = 1): <1

Flammability (solid/gas): Data not available. Explosion limits: Lower / Upper: Data not available

Vapor pressure (mm Hg): 14 (water) Vapor density (Air = 1): 0.7 (water)

Relative density (Specific gravity): Approximately 1.0 (water)

Solubility(ies): Complete in water.

Partition coefficient: Data not available Auto-ignition temperature: Data not available Decomposition temperature: Data not available. Viscosity: Data not available.

Marine pollutant: No

Molecular formula: Mixture Molecular weight: Mixture

#### Section 10 Stability and reactivity

Chemical stability: Stable Hazardous polymerization: Will not occur.

Conditions to avoid: Excessive temperatures which cause evaporation. Protect from light.

Incompatible materials: Strong oxidizers.

Hazardous decomposition products: Carbon oxides, sulfur oxides and bromine gas.

#### Section 11 Toxicological information

Acute toxicity: Data not available

Skin corrosion/irritation: Data not available Serious eye damage/irritation: Data not available Respiratory or skin sensitization: Data not available

Germ cell mutagenicity: Data not available

Carcinogenity: Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Data not available

Aspiration hazard: Data not available

Potential health effects:

Inhalation: May be harmful if inhaled. Ingestion: May be harmful if swallowed.

Skin: May cause irritation. Eyes: May cause irritation.

Signs and symptoms of exposure: To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is

not available. Exercise appropriate procedures to minimize potential hazards.

Additional information: RTECS #: Data not available

#### Section 12 **Ecological information**

Toxicity to fish: No data available

Toxicity to daphnia and other aquatic invertebrates: No data available

Toxicity to algae: No data available

Bioaccumulative potential: No data available Persistence and degradability: No data available Mobility in soil: No data available PBT and vPvB assessment: No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

### Disposal considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

Reportable Quantity: No

#### Section 14 Transport information

UN/NA number: Not applicable Shipping name: Not Regulated Hazard class: Not applicable

Packing group: Not applicable

2020 ERG Guide # Not applicable **Exceptions:** Not applicable

#### Section 15 Regulatory information

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Bromothymol blue, sodium salt	Listed	Not listed	Not listed	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

#### Section 16 Other information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.

Supercedes: October 16, 2019 Form 06/2015 Revision Date: September, 18, 2020

Section 1 Identification Page E1 of E2

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221 Rochester Street Avon, NY 14414-9409 (585) 226-6177 CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory and industrial use only. Not for drug, food or household use.

Product COPPER METAL

Synonyms | Copper Metal Foil / Copper Foil

Section 2 Hazards identification

This substance or mixture has not been classified as hazardous according to the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals.

Signal word: Not classified Pictograms: Not classified Target organs: Liver, Kidneys

GHS Classification: Not classified

GHS Label information: Hazard statement(s): Not classified

Precautionary statement(s): Not classified

#### Supplemental information:

SHARP EDGES! ABRASIVE TO SKIN. USE CARE WHEN HANDLING. Do not breathe dust or fume. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell.

#### Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3	Composition / information on ingredients					
Chemical Name		CAS#	%	EINECS		
Copper metal		7440-50-8	100%	231-159-6		

## Section 4 First aid measures

**INGESTION:** MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: HARMFUL IF INHALED AS FUME. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: MAY CAUSE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY CAUSE IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

#### Section 5 Fire fighting measures

Suitable Extinguishing Media: Use triclass, dry chemical fire extinguisher. Do NOT use water on fire where molten metal is present.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

**Specific Hazards:** During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Molten metals produce fume, vapor and/or dust that may be toxic and/or a respiratory irritant. Metal reacts with oxidizing agents.

### Section 6 Accidental release measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Recover for reuse if not contaminated. Remove all sources of ignition. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Page E2 of E2 Section 7 Handling and storage

Read label on container before using. Do not wear contact lenses when working with chemicals. Keep container tightly closed. Keep out of reach of children. Use with adequate ventilation. Wash thoroughly after handling

Handling: Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid ingestion. Do not inhale fumes from molten metals. Wash thoroughly after handling. Remove and wash clothing before reuse.

Storage: Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8	Exposure controls / personal protect	tion		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Limits:	Copper, dusts and mists, as Cu	TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

#### Physical and chemical properties Section 9

Appearance: Solid. Red-brown, lustrous metal.

Turns green on exposure to moist air. Odor: No odor

Odor threshold: Data not available.

pH: Data not available

Melting / Freezing point: 1083°C (1981°F)

Boiling point: 2595°C (4703°F) Flash point: Not applicable Section 10

Stability and reactivity

Evaporation rate ( = 1): Not applicable Flammability (solid/gas): Not applicable Explosion limits: Lower / Upper: Not applicable Vapor pressure (mm Hg): 1 mm @ 1628°C Vapor density (Air = 1): Data not available

Relative density (Specific gravity): 8.92 @ 20°C

Solubility(ies): Insoluble

Partition coefficient: Data not available Auto-ignition temperature: Not applicable Decomposition temperature: Data not available.

Viscosity: Data not available. Molecular formula: Cu Molecular weight: 63.55

Chemical stability: Stable Hazardous polymerization: Will not occur.

Conditions to avoid: Excessive temperatures and heat.

Incompatibilities with other materials: Strong oxidizers may cause a violent reaction.

Hazardous decomposition products: At temperatures above melting point, toxic fumes or vapors may be emitted.

#### Section 11 Toxicological information

Acute toxicity: Data not available

Skin corrosion/irritation: Data not available Serious eye damage/irritation: Data not available Respiratory or skin sensitization: Data not available

Germ cell mutagenicity: Data not available

Carcinogenity: Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Data not available Aspiration hazard: Data not available

Potential health effects:

Inhalation: Inhalation of dust or fumes may irritate respiratory system. Symptoms include cough, headache, sore throat, shortness of breath.

Ingestion: May be harmful if swallowed. Symptoms include abdominal pain, nausea, vomiting,

Skin: May cause irritation and redness.

Eyes: Contact with eyes may cause redness and pain.

Signs and symptoms of exposure: Over-heating of alloy can produce metal fumes and oxides. Fumes of copper may cause metal fume fever with flu-like symptoms and skin and hair discolorization. Copper dust and fume cause irritation of the upper respiratory tract, metallic taste in the mouth, and nausea. Chronic poisoning results in Wilson's disease characterized by a hepatic cirrhosis, brain damage, denyelination, renal disease and copper depostion in the cornea.

Additional information: RTECS #: GL5325000

#### Section 12 **Ecological information**

Toxicity to fish: No data available

Toxicity to daphnia and other aquatic invertebrates: No data available

Toxicity to algae: No data available

**Exceptions:** Not applicable

Persistence and degradability: No data available Bioaccumulative potential: No data available Mobility in soil: No data available PBT and vPvB assessment: No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

#### Section 13 Disposal considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

#### Section 14 Transport information

UN/NA number: Not applicable Shipping name: Not Regulated Hazard class: Not applicable Packing group: Not applicable

2020 ERG Guide # Not applicable

Reportable Quantity: No Marine pollutant: No

#### Section 15 Regulatory information

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Copper	Listed	Not listed	Not listed	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

#### Section 16 Other information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.

Revision Date: September 24, 2020 Form 06/2015 Supercedes: November 4, 2019 Section 1 Identification Page E1 of E2

## Innovating Science® by Aldon Corporation "cutting edge science for the classroom"

221 Rochester Street Avon, NY 14414-9409 (585) 226-6177

**CHEMTREC 24 Hour Emergency** Phone Number (800) 424-9300 For laboratory and industrial use only. Not for drug, food or household use.

COPPER(II) SULFATE, 0.5 MOLAR SOLUTION **Product** 

Synonyms Cupric Sulfate, Water Solution

Section 2 Hazards identification

Signal word: WARNING Pictograms: GHS07 / GHS09

Target organs: Liver, Kidneys, Lungs, Spleen.





**GHS Classification:** 

Acute toxicity-oral (Category 4) Skin irritation (Category 2) Eye irritation (Category 2A) Aquatic acute toxicity (Category 1) Aquatic chronic toxicity (Category 1)

H319: Causes serious eve irritation.

GHS Label information: Hazard statement:

H302: Harmful if swallowed. H315: Causes skin irritation.

H410: Very toxic to aquatic life with long lasting effects.

Precautionary statement:

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P312: IF SWALLOWED: Rinse mouth. Call a POISON CENTER or

doctor if you feel unwell

P302+P352: IF ON SKIN: Wash with plenty of water and soap.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P332+P313: If skin irritation occurs: Get medical attention. P337+P313: If eye irritation persists: Get medical attention.

P362+P364: Take off contaminated clothing and wash it before reuse.

P391: Collect spillage.

P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

#### Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3 Composition / information on ingredients						
Chemical Name		CAS#	%	EINECS		
Water Cupric sulfate, per	ntahydrate	7732-18-5 7758-99-8	87.51% 12.49%	231-791-2 231-847-6 (anhydrous)		

#### Section 4 First aid measures

INGESTION: HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES SEVERE EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: CAUSES SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

#### Section 5 Fire fighting measures

Suitable Extinguishing Media: Use any media suitable for extinguishing supporting fire.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

#### Section 6 Accidental release measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Section 7 Handling and storage Page E2 of E2

**Precautions for Safe Handling:** Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, well-ventilated area away from incompatible substances.

Section 8	Exposure controls / personal protect	tion		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Limits.	Copper, dusts and mists, as Cu	TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

### Section 9 Physical and chemical properties

Appearance: Clear, blue liquid.

Odor: No odor.

Odor threshold: Data not available

pH: Data not available.

Melting / Freezing point: Approximately 0°C (32°F) (water)
Boiling point: Approximately 100°C (212°F) (water)

Flash point: Data not available

/allable

Evaporation rate ( Water = 1): <1

Flammability (solid/gas): Data not available.

Explosion limits: Lower / Upper: Data not available

Vapor pressure (mm Hg): 14 (water) Vapor density (Air = 1): 0.7 (water)

Relative density (Specific gravity): Approximately 1.0 (water)

Solubility(ies): Complete in water.

Partition coefficient: Data not available
Auto-ignition temperature: Data not available
Decomposition temperature: Data not available.

Marine pollutant: No

Viscosity: Data not available. Molecular formula: Mixture Molecular weight: Mixture

Section 10 Stability and reactivity

Chemical stability: Stable Hazardous polymerization: Will not occur.

Conditions to avoid: Excessive temperatures which cause evaporation.

Incompatible materials: Reducing agents, acetylene or nitromethane, magnesium, strong bases, alkalines, phosphates, hydrazine, zirconium. Can corrode aluminum, steel and

iron.

Hazardous decomposition products: Oxides of sulfur and copper fumes.

### Section 11 Toxicological information

Acute toxicity: Oral-rat LD50: 300 mg/kg [Copper sulfate anhydrous]

Skin corrosion/irritation: Data not available Serious eye damage/irritation: Data not available Respiratory or skin sensitization: Data not available

Germ cell mutagenicity: Data not available

Carcinogenity: Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Data not available

Aspiration hazard: Data not available

Potential health effects:

Inhalation: May cause irritation to the mucous membranes and upper respiratory tract. Ingestion: Ingestion can cause irritation to the digestive tract and abdominal pain.

Skin: Contact with skin causes slight irritation. Excessive exposure may cause allergic dermatitis. May cause irritation or burns on wet skin.

Eyes: Can cause severe irritation and may result in irreversible eye damage.

Signs and symptoms of exposure: Note to physician: Probable mucosal damage may contradict the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsions may be needed. Wilson's disease can be aggravated by excessive exposure. Symptoms include nausea, vomiting, gastrointestinal pain, diarrhea, dizziness, jaundice, and general debility.

Additional information: RTECS #: GL8900000 [Copper sulfate pentahydrate]

### Section 12 Ecological information

Toxicity to fish: Salmo gairdneri (fish, estuary, fresh water), LC50 = < 0.75-0.84 mg/L [Copper sulfate anhydrous]

Toxicity to daphnia and other aquatic invertebrates: No data available

Toxicity to algae: No data available

Persistence and degradability: No data available

Mobility in soil: No data available

Bioaccumulative potential: No data available

PBT and vPvB assessment: No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

#### Section 13 Disposal considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

## Section 14 Transport information

UN/NA number: Not applicable

Hazard class: Not applicable

Shipping name: Not Regulated
Packing group: Not applicable

Exceptions: Not applicable 2020 ERG Guide # Not applicable

Packing group: Not applicable Reportable Quantity: No 2020 FRG Guide # Not applicable

### Section 15 Regulatory information

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list

Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Cupric sulfate	Listed	10 lbs (4.54 kg)	Not listed	Not listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or

## Section 16 Other information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.

Form 06/2015 Revision Date: September 24, 2020 Supercedes: April 30, 2018

Section 1 Identification Page E1 of E2

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221 Rochester Street Avon, NY 14414-9409 (585) 226-6177

**CHEMTREC 24 Hour Emergency** Phone Number (800) 424-9300

For laboratory and industrial use only. Not for drug, food or household use.

**DIALYSIS TUBING Product** N/A

Section 2 Hazards identification

This substance or mixture has not been classified at this time according to the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals.

Signal word: Not a dangerous substance according to GHS Pictograms: Not a dangerous substance according to GHS

Target organs: None known

**GHS Classification:** 

Synonyms

Not a dangerous substance according to GHS

GHS Label information: Hazard statement(s): Not a dangerous substance according to GHS

Precautionary statement(s):

Not a dangerous substance according to GHS

Semi-permeable membrane tubing made of regenerated cellulose from cotton linters, one of the purest naturally occurring sources of cellulose. Contains water, glycerol as a humectant, and small quantities of sulfur compounds, primarily as polysulfides (approximately 0.1%). Store in air-tight container or rehumidify before use. Contains a solution which may cause irritation to eyes. In case of contact with eyes, flush thoroughly with water for 15 minutes.

#### Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3	Composition / information on	ingredients		
Chemical Name		CAS#	%	EINECS
	ycerol as a humectant, and small quant moved by proper washing.	ities of sulfur compounds,	primarily as polysul	fides (approximately 0.1%). Both the glycerol and
Section 4	First aid measures			

INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. Causes eye irritation.

SKIN ABSORPTION: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. Causes skin irritation.

#### Section 5 Fire fighting measures

Extinguishing Media: Use any media suitable for extinguishing supporting fire.

General information: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

#### Section 6 Accidental release measures

Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Section 7 Handling and storage Page E2 of E2

Read label on container before using. Do not wear contact lenses when working with chemicals. Keep container tightly closed. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Handling: Avoid contact with eyes, skin and clothing. Avoid ingestion. Wash thoroughly after handling.

Storage: Store in a cool, well-ventilated area away from incompatible substances.

Section 8	Exposure controls / personal prote	ection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	No components listed	None established.	None established.	None established.

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures.

### Section 9 Physical and chemical properties

Appearance: Solid, transparent, light amber tubing.

Odor: No odor.

Odor threshold: Not applicable

pH: Not applicable

Melting / Freezing point: Not applicable

Boiling point: Not applicable Flash point: Not applicable

Evaporation rate ( = 1): Not applicable Flammability (solid/gas): Not applicable

Explosion limits: Upper: / Lower: Not applicable

Vapor pressure (mm Hg): Not applicable Vapor density (Air = 1): Not applicable

Relative density (Specific gravity): Not applicable

Solubility(ies): Insoluble

Partition coefficient: (n-octanol / water): Not applicable

Marine pollutant: No

Auto-ignition temperature: Not applicable Decomposition temperature: Not applicable

Viscosity: Not applicable

Molecular formula: Not applicable Molecular weight: Not applicable

### Section 10 Stability and reactivity

Chemical stability: Stable Hazardous polymerization: Will not occur.

Conditions to avoid: Do not allow product to dry out.

Incompatibilities with other materials: No specific data.

Hazardous decomposition products: No specific data.

### Section 11 Toxicological information

Acute toxicity: Oral-rat LD50: 12,000 mg/kg [Glycerol]
Skin corrosion/irritation: Non-irritating [Glycerol]
Serious eye damage/irritation: Non-irritating [Glycerol]
Respiratory or skin sensitization: Non-sensitizing [Glycerol]

Germ cell mutagenicity: Data not available

Carcinogenity: Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Data not available

Aspiration hazard: Data not available

Potential health effects:

Inhalation: Not expected to cause ill effects. Ingestion: Not expected to cause ill effects. Skin: Not expected to cause ill effects. Eyes: Contact may cause irritation.

Signs and symptoms of exposure: To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is

not available. Exercise appropriate procedures to minimize potential hazards.

Additional information: RTECS #: None assigned.

### Section 12 Ecological information

Toxicity to fish: No data available

Toxicity to daphnia and other aquatic invertebrates: No data available

Toxicity to algae: No data available

Persistence and degradability: No data available

Mobility in soil: No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

#### Section 13 Disposal considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

#### Section 14 Transport information

UN/NA number: Not applicable

Hazard class: Not applicable

Packing group: Not applicable

Reportable Quantity: No

Exceptions: Not applicable 2020 ERG Guide # Not applicable

### Section 15 Regulatory information

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Data not available						This product does not contain any chemicals known to the State of California to cause cancer or

### Section 16 Other information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.

Form 06/2015 Revision Date: September 25, 2020 Supercedes: November 11, 2019

Section 1 Identification Page E1 of E2

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221 Rochester Street Avon, NY 14414-9409 (585) 226-6177

**CHEMTREC 24 Hour Emergency** Phone Number (800) 424-9300 For laboratory and industrial use only. Not for drug, food or household use.

MAGNESIUM METAL, RIBBON **Product** 

Synonyms Magnesium

Section 2 Hazards identification

Signal word: WARNING Pictograms: GHS02 Target organs: None known

**GHS Classification:** 

Flammable solid (Category 2)

GHS Label information: Hazard statement:

H228: Flammable solid.

Precautionary statement:

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.

#### Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Combustible dust Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3 Composition /	information on ingredients	nation on ingredients			
Chemical Name	CAS#	%	EINECS		
Magnesium	7439-95-4	99.8%	231-104-6		
-					

#### Section 4 First aid measures

INGESTION: MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: MAY CAUSE EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY BE HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

#### Section 5 Fire fighting measures

Suitable Extinguishing Media: Use only graphite powder, soda ash, powdered sodium chloride, or an appropriate metal-fire-extinguishing dry powder. DO NOT use water, carbon dioxide, or foam!

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear.

Specific Hazards: When heated in air to a temperature near its melting point, magnesium may ignite and burn. Dangerous in the form of dust or flakes and when exposed to flame or by violent chemical reaction with oxidizing agents. Magnesium may react with moisture or acids to evolve hydrogen gas, which is a highly dangerous fire or explosion hazard.

#### Accidental release measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Remove all sources of ignition. Using non-sparking tools, sweep up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Page E2 of E2 Section 7 Handling and storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from ignition sources. Keep away from water and moisture.

Section 8	ection 8 Exposure controls / personal protection					
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)		
Exposure Limits.	Magnesium	Not established	Not established	Not established		

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

#### Section 9 Physical and chemical properties

Appearance: Solid. Silvery gray, metal ribbon

Odor: No odor

Odor threshold: Data not available.

pH: Data not available.

Melting / Freezing point: 651°C (1203.8°F)

Boiling point: 1110°C (2030°F) Flash point: 636°C (1175°F)

Solubility(ies): Negligible in water.

Partition coefficient: Data not available Auto-ignition temperature: 510°C (950°F) Decomposition temperature: Data not available.

Viscosity: Data not available. Molecular formula: Mg Molecular weight: 24.31

#### Section 10 Stability and reactivity

Chemical stability: Stable Hazardous polymerization: Will not occur. Conditions to avoid: Excessive temperatures, heat, sparks, open flame and other sources of ignition.

Incompatible materials: Magnesium will react with water and acids to release hydrogen. Also hazardous with chlorine, bromine, iodine and oxidizing agents.

Evaporation rate ( = 1): Data not available

Flammability (solid/gas): Data not available.

Vapor pressure (mm Hg): 1 mm @ 621°C

Vapor density (Air = 1): Data not available

Relative density (Specific gravity): 1.74 @ 20°C

Explosion limits: Lower / Upper: Data not available

Hazardous decomposition products: Hydrogen.

#### Section 11 **Toxicological information**

Acute toxicity: Data not available

Skin corrosion/irritation: Data not available Serious eye damage/irritation: Data not available Respiratory or skin sensitization: Data not available

Germ cell mutagenicity: Data not available

Carcinogenity: Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Data not available Aspiration hazard: Data not available

Potential health effects:

Inhalation: Inhalation may cause cough, sore throat, shortness of breath.

Ingestion: Ingestion causes burning sensation in the mouth and may cause abdominal pain and diarrhea. Skin: Particles imbedded in the skin may cause eruptions. Molten magnesium may cause serious skin burns.

Eyes: Contact with eyes may cause irritation and corneal scratches. Avoid direct viewing of magnesium fires as eye injury may result, use fire glasses.

Signs and symptoms of exposure: Exposure to magnesium oxide fume subsequent to burning can result in metal fume fever. The temporary symptoms can include fever, chills, nausea, vomiting and muscular pain. Onset of symptoms occurs 4-12 hours after exposure. Exercise appropriate procedures to minimize potential hazards.

Additional information: RTECS #: OM2100000 Section 12 **Ecological information** 

Toxicity to fish: No data available

Toxicity to daphnia and other aquatic invertebrates: No data available

Toxicity to algae: No data available

Bioaccumulative potential: No data available Persistence and degradability: No data available Mobility in soil: No data available PBT and vPvB assessment: No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

#### Disposal considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

#### Transport information Section 14

UN/NA number: UN1869 Shipping name: Magnesium

Hazard class: 4.1 Packing group: III Reportable Quantity: No Marine pollutant: No

2020 ERG Guide # 138 Exceptions: Limited quantity equal to or less than 5 Kg

#### Section 15 Regulatory information

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list

Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Magnesium	Listed	Not listed	D001	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or

#### Section 16 Other information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.

Revision Date: October 7, 2020 Supercedes: January 20, 2020 Form 06/2015

Section 1 Identification Page E1 of E2

Innovating Science® by Aldon Corporation

"cutting edge science for the classroom"

221 Rochester Street Avon, NY 14414-9409 (585) 226-6177 CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300

For laboratory and industrial use only. Not for drug, food or household use.

Product SODIUM SULFATE, 1 MOLAR SOLUTION

Synonyms Sodium Sulfate, Water Solution

Section 2 Hazards identification

This substance or mixture has not been classified as hazardous according to the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals.

Signal word: None required Pictograms: No symbol required Target organs: None known

GHS Classification: None required

GHS Label information: Hazard statement: None required

Precautionary statement: None required

#### Supplemental information:

Do not breathe mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell.

#### Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3 Composition / information on ingredients					
Chemical Name		CAS#	%	EINECS	
Water Sodium sulfate		7732-18-5 7757-82-6	85.8% 14.2%	231-791-2 231-820-9	

#### Section 4 First aid measures

**INGESTION:** MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY BE HARMFUL IF INHALED. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: MAY CAUSE TRANSIENT IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

**SKIN ABSORPTION:** MAY CAUSE TRANSIENT IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

#### Section 5 Fire fighting measures

Suitable Extinguishing Media: Use extinguishing agent suitable for type of surrounding fire.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: In fire conditions, water may evaporate from this solution which may cause hazardous decomposition products to be formed as dust or fume.

#### Section 6 Accidental release measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Section 7 Handling and storage Page E2 of E2

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, well-ventilated area away from incompatible substances.

Section 8	Exposure controls / personal protection				
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)	
Exposure Limits.	Sodium sulfate	None established.	None established.	None established.	

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

#### Section 9 Physical and chemical properties

Appearance: Clear, colorless liquid.

Odor: No odor.

Odor threshold: Data not available.

pH: Data not available

Melting / Freezing point: Approximately 0°C (32°F) (water)
Boiling point: Approximately 100°C (212°F) (water)

Flash point: Data not available

Evaporation rate ( Water = 1): <1 Flammability (solid/gas): Data not available.

Explosion limits: Lower / Upper: Data not available

Vapor pressure (mm Hg): 14 (water) Vapor density (Air = 1): 0.7 (water)

Relative density (Specific gravity): Approximately 1.0 (water)

Solubility(ies): Complete in water.

Partition coefficient: Data not available
Auto-ignition temperature: Data not available
Decomposition temperature: Data not available.

Marine pollutant: No

Viscosity: Data not available. Molecular formula: Mixture Molecular weight: Mixture

#### Section 10 Stability and reactivity

Chemical stability: Stable Hazardous polymerization: Will not occur.

Conditions to avoid: Excessive temperatures which cause evaporation.

Incompatibilities with other materials: Molten active metals, including aluminum and magnesium, acids.

Hazardous decomposition products: Oxides of sulfur.

#### Section 11 Toxicological information

Acute toxicity: Oral-rat LD50: >10,000 mg/kg Skin corrosion/irritation: Data not available Serious eye damage/irritation: Data not available Respiratory or skin sensitization: Data not available

Germ cell mutagenicity: Data not available

Carcinogenity: Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Data not available

Aspiration hazard: Data not available

Potential health effects:

Inhalation: May be harmful if inhaled. Ingestion: May be harmful if swallowed. Skin: May cause mild irritation. Eyes: May cause mild irritation.

Signs and symptoms of exposure: To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is

not available. Exercise appropriate procedures to minimize potential hazards.

Additional information: RTECS #: No data available

#### Section 12 Ecological information

Toxicity to fish: Gambusia affinis (Fish, fresh water) LC50: 120 mg/l/96 hours [Sodium sulfate]

Toxicity to daphnia and other aquatic invertebrates: Daphnia magna (Crustacea) EC50: 630 mg/l/96 hours [Sodium sulfate]

Toxicity to algae: Chlorella pyrenoidosa (Algae) EC199: 57,700 mg/l/8 days [Sodium sulfate]

Persistence and degradability: No data available

Mobility in soil: No data available

PBT and vPvB assessment: No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

#### Section 13 Disposal considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

## Section 14 Transport information

UN/NA number: Not applicable

Hazard class: Not applicable

Shipping name: Not Regulated

Packing group: Not applicable

Reportable Quantity: No

Exceptions: Not applicable 2020 ERG Guide # Not applicable

#### Section 15 Regulatory information

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Sodium sulfate	Listed	Not listed	Not listed	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

#### Section 16 Other information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.

Form 06/2015 Revision Date: October 23, 2020 Supercedes: January 31, 2020



#### Safety Data Sheet: Material Name: Elmer's 3D Glitter Glue Pens SDS 1D: SDS-99 Issue Date: 2015-04-22

Revision:

#### Other Sections

01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16

## Section 1 - PRODUCT AND COMPANY IDENTIFICATION

#### Material Name

Elmer's 3D Glitter Glue Pens

Synonyms

E331, E642, E646, E647, E653, E654, E658, E197, E198, E199, E1652, E2060, E2063, E2064, E2402, E2403, E2481, E2739, E2977, E2978, E2979, E4035, E4036, E4037, 10642, 52978, 52979, 60658

#### Product Use

Arts and Crafts.

#### Restrictions on Use

None known

#### Manufacturer Information

Elmer's Products, Inc. 460 Polaris Parkway, Suite 500 Westerville, OH 43082 **USA** Phone: 1-888-435-6377 Fax:1-800-741-6046

Email:comments@elmers.com

Emergency Phone Number:

Poison Control Center 1-888-516-2502

For additional product information, access our website at www.elmers.com. To place an order, call 1-800-848-9400.

## Section 2 - HAZARDS IDENTIFICATION

## Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

None needed according to classification criteria

#### **GHS Label Elements**

## Symbol(s)

None needed according to classification criteria

#### Signal Word

None needed according to classification criteria

## Hazard Statement(s)

None needed according to classification criteria

## Precautionary Statement(s)

#### Prevention

None needed according to classification criteria

#### Response

None needed according to classification criteria

#### Storage

None needed according to classification criteria

#### Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations

## Statement of Unknown Toxicity

100% of the mixture consists of ingredient(s) of unknown acute toxicity.

#### Other Hazards

No data available

## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

		Percent
Not Assigned	Non-Hazardous	100

#### Section 4 - FIRST AID MEASURES

#### Inhalation

If adverse effects occur, remove to uncontaminated area. If discomfort persists, contact a physician.

#### Skin

If on skin, wash immediately with plenty of soap and water. Get medical attention if irritation develops.

#### Eyes

Remove contact lenses, if present and easy to do. IMMEDIATELY wash with large amounts of warm water, occasionally lifting upper and lower lids, until no evidence of chemical remains (at least 15-20 minutes). Get medical attention immediately.

#### Ingestion

Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious or convulsive person. DO NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

## Most Important Symptoms/Effects

#### Acute

no information on significant adverse effects.

#### Delayed

no information on significant adverse effects.

#### Section 5 - FIRE FIGHTING MEASURES

#### **Extinguishing Media**

#### Suitable Extinguishing Media

Use carbon dioxide, regular dry chemical, regular foam or water.

## Unsuitable Extinguishing Media

None known.

## Special Hazards Arising from the Chemical

Slight fire hazard.

#### **Hazardous Combustion Products**

oxides of carbon

## Special Protective Equipment and Precautions for Firefighters

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

#### Fire Fighting Measures

Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

#### Section 6 - ACCIDENTAL RELEASE MEASURES

## Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8.

## Methods and Materials for Containment and Cleaning Up

Stop leak if possible without personal risk, Small spills: Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal.

#### **Environmental Precautions**

Avoid release to the environment.

#### Section 7 - HANDLING AND STORAGE

## **Precautions for Safe Handling**

Wash thoroughly after handling.

## Conditions for Safe Storage, Including any Incompatibilities

None needed according to classification criteria Keep separated from incompatible substances.

#### Incompatible Materials

oxidizing materials

#### Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Component Exposure Limits

ACGIH, NIOSH, EU, OSHA (US) and Mexico have not developed exposure limits for any of this product's components

## Biological limit value

There are no biological limit values for any of this product's components.

#### **Engineering Controls**

Based on available information, additional ventilation is not required.

# Individual Protection Measures, such as Personal Protective Equipment

## Eye/face protection

Eye protection not required under normal conditions.

## Skin Protection

Protective clothing is not required under normal conditions.

## Respiratory Protection

No respirator is required under normal conditions of use. Under conditions of frequent use or heavy exposure, respiratory protection may be needed.

## **Glove Recommendations**

Protective gloves are not required under normal conditions.

# Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	colored liquid	Physical State	liquid
Odor	Not available	Color	various colors
Odor Threshold	Not available	рН	5 - 5.5
Melting Point	Not available	Boiling Point	100°C
Freezing point	0 °C	Evaporation Rate	Not available
Boiling Point Range	Not available	Flammability (solid, gas)	Non- Flammable
Autoignition	Not available	Flash Point	Not available
Lower Explosive Limit	Not available	Decomposition	Not available
Upper Explosive Limit	Not available	Vapor Pressure	Not available
Vapor Density (air=1)	Not avaîlable	Specific Gravity (water=1)	1 ~ 1.09
Water Solubility	Miscible	Partition coefficient: n-octanol/water	Not available
Viscosity	Not avnilable	Solubility (Other)	Not available

Density 8.3 - 9.1 Physical Form liquid

# Section 10 - STABILITY AND REACTIVITY

#### Reactivity

No reactivity hazard is expected.

#### **Chemical Stability**

Stable at normal temperatures and pressure.

## Possibility of Hazardous Reactions

Will not polymerize.

## Conditions to Avoid

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

## Incompatible Materials

oxidizing materials

# Hazardous decomposition products

# Thermal decomposition products

oxides of carbon

## Section 11 - TOXICOLOGICAL INFORMATION

# Information on Likely Routes of Exposure

#### Inhalation

No information on significant adverse effects.

#### Skin Contact

No information on significant adverse effects.

#### Eye Contact

No information on significant adverse effects.

#### Ingestion

No information on significant adverse effects.

## Acute and Chronic Toxicity

## Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and no selected endpoints have been identified

#### **Immediate Effects**

No information on significant adverse effects.

## **Delayed Effects**

No information on significant adverse effects.

## Irritation/Corrosivity Data

No information on significant adverse effects.

## Respiratory Sensitization

No information on significant adverse effects.

#### **Dermal Sensitization**

No information on significant adverse effects.

#### Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA

## Germ Cell Mutagenicity

No information on significant adverse effects.

## Reproductive Toxicity

No information on significant adverse effects.

## Specific Target Organ Toxicity - Single Exposure

No target organs identified.

## Specific Target Organ Toxicity - Repeated Exposure

No target organs identified.

#### Aspiration hazard

No information on significant adverse effects.

## Medical Conditions Aggravated by Exposure

No data available.

# Section 12 - ECOLOGICAL INFORMATION

## Component Analysis - Aquatic Toxicity

No LOLI ecotoxicity data are available for this product's components

## Section 13 - DISPOSAL CONSIDERATIONS

# Disposal Methods Dispose in accordance with all applicable regulations. Component Waste Numbers The U.S. EPA has not published waste numbers for this product's components Section 14 - TRANSPORT INFORMATION US DOT Information: UN/NA #: Not Regulated IATA Information: UN#: Not Regulated TDG Information: UN#: Not Regulated Section 15 - REGULATORY INFORMATION U.S. Federal Regulations None of this products components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan. SARA Section 311/312 (40 CFR 370 Subparts B and C) Acute Health: No Chronic Health: No Fire: No Pressure: No Reactivity: No U.S. State Regulations None of this product's components are listed on the state lists from CA, MA, MN, NJ or PA

Not listed under California Proposition 65

Canadian WHMIS Ingredient Disclosure List (IDL)

The components of this product are either not listed on the IDL or are present below the threshold limit listed on the IDL.

Section 16 - OTHER INFORMATION

**NFPA Ratings** 

Health: 1 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

#### **Summary of Changes**

New SDS:3/12/2015

#### Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS -Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation: DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC -European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC -International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization, IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow -Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of LIsts<sup>TM</sup> - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA -Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH-Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport: SARA - Superfund Amendments and Reauthorization Act; STEL -Short-term Exposure Limit: TDG - Transportation of Dangerous Goods: TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

#### Other Information

#### Disclaimer:

Supplier gives no warranty whatsoever, including the warranties of merchantability or of filness for a particular purpose. Any product purchased is sold on the assumption the purchaser shall determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.



# SAFETY DATA SHEET

# **Section 1. Identification**

**GHS** product identifier

: Elmer's All Purpose Glue Stick

Product code

: E1557, E4018, E4019, E5004, E5006, E501, E599, E5022, E5040, E510, E511, E512, E515, E516, E517, E521, E542, E553, E556, E563, E6002, E64819, 60002, 60200, 60201Q, 60223DR, 60224DR, 60556, 60572, 60602TR, 64512, 64819, 65004, 65030

Other means of identification

: Not available.

**Product type** 

: Solid.

## Relevant identified uses of the substance or mixture and uses advised against

Not applicable.

**Material uses** : Not available.

Manufacturer

: Newell Brands, Inc.

6655 Peachtree Dunwoody Road Sandy Springs, GA 30328

USA

800-323-0749

**Emergency telephone** number (with hours of operation)

: CHEMTREC (U.S. and Canada) 1-800-424-9300 CHEMTREC (Outside the U.S.) +1-703-527-0585

# Section 2. Hazards identification

**OSHA/HCS** status

: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture

: Not classified.

Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity:

66.1%

Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity:

93.7%

Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation

toxicity: 99.8%

**GHS label elements** 

Signal word : No signal word.

**Hazard statements** : No known significant effects or critical hazards.

**Precautionary statements** 

General : Read label before use. If medical advice is needed, have product container or label at

hand.

Prevention : Not applicable. Response : Not applicable. Storage : Not applicable. **Disposal** : Not applicable. : None known.

Hazards not otherwise

classified

Date of issue/Date of revision : 11/18/2020 Date of previous issue :11/11/2020 Version : 2 Elmer's All Purpose Glue Stick

# Section 3. Composition/information on ingredients

Substance/mixture Other means of identification : Mixture: Not available.

Ingredient name	%	CAS number
propane-1,2-diol	≤10	57-55-6
glycerol	≤10	56-81-5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

# Section 4. First aid measures

#### **Description of necessary first aid measures**

Eye contact : Immediately

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation

occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get

medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under

medical surveillance for 48 hours.

**Skin contact**: Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur.

Ingestion : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position

comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

## Most important symptoms/effects, acute and delayed

## Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

## Over-exposure signs/symptoms

Eye contact: No specific data.Inhalation: No specific data.Skin contact: No specific data.Ingestion: No specific data.

## Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

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# Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing

media

Unsuitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

: None known.

Specific hazards arising from the chemical

Hazardous thermal decomposition products

: No specific fire or explosion hazard.

 Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

## Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders:

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

## Methods and materials for containment and cleaning up

Small spill

: Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

: Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

#### **Precautions for safe handling**

**Protective measures** 

Advice on general occupational hygiene

- : Put on appropriate personal protective equipment (see Section 8).
- : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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# Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations. Shelf life: 2 years. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

#### Occupational exposure limits

Ingredient name	Exposure limits
propane-1,2-diol	AIHA WEEL (United States, 7/2018).
	TWA: 10 mg/m <sup>3</sup> 8 hours.
glycerol	OSHA PEL 1989 (United States, 3/1989).
	TWA: 5 mg/m³ 8 hours. Form: Respirable
	fraction
	TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Total dust
	OSHA PEL (United States, 5/2018).
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable
	fraction
	TWA: 15 mg/m³ 8 hours. Form: Total dust

# Appropriate engineering controls

Environmental exposure controls

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### Individual protection measures

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

**Skin protection** 

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

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# Section 9. Physical and chemical properties

**Appearance** 

Physical state : Solid.

Color : White. [Light] Odor : Not available. Odor threshold : Not applicable. рН : 10.5 to 10.9 **Melting point** : Not available. **Boiling point** : 100°C (212°F) Flash point : Not applicable. **Evaporation rate** : Not applicable. Flammability (solid, gas) : Not available.

Lower and upper explosive

(flammable) limits

: Not available.

Vapor pressure : Not applicable.
Vapor density : Not available.
Relative density : 1.01 to 1.02
Solubility : Not available.
Solubility in water : Not available.
Partition coefficient: n- : Not applicable.

octanol/water

i Not applicable.

Auto-ignition temperature : Not applicable.

Decomposition temperature : Not applicable.

Viscosity : Dynamic (room temperature): Not applicable.

Kinematic (room temperature): Not applicable.

Flow time (ISO 2431) : Not available.

**Aerosol product** 

# Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

Hazardous decomposition : Ur

products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicological information

## Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure		
propane-1,2-diol	LD50 Dermal	Rabbit	20800 mg/kg	-		
	LD50 Oral	Rat	20 g/kg	-		
glycerol	LD50 Oral	Rat	12600 mg/kg	-		

## **Irritation/Corrosion**

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# Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
propane-1,2-diol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
1 (a)	(Max)			mg	
	Eyes - Mild irritant	Rabbit	_	100 mg	-
	Skin - Moderate irritant	Child	-	96 hours 30	n=
				% C	
	Skin - Mild irritant	Human	-	168 hours	n=
				500 mg	
	Skin - Moderate irritant	Human	=	72 hours 104	-
				mg I	
	Skin - Mild irritant	Woman	-	96 hours 30	a=
				%	
glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500	a=
				mg	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	

## **Sensitization**

Not available.

#### Mutagenicity

Not available.

## Carcinogenicity

Not available.

## Reproductive toxicity

Not available.

#### **Teratogenicity**

Not available.

## Specific target organ toxicity (single exposure)

Not available.

## Specific target organ toxicity (repeated exposure)

Not available.

## **Aspiration hazard**

Not available.

Information on the likely routes of exposure

: Not available.

## Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

## Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

# <u>Delayed and immediate effects and also chronic effects from short and long term exposure</u> <u>Short term exposure</u>

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# Section 11. Toxicological information

**Potential immediate** 

effects

: Not available.

Potential delayed effects

: Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

## Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

## **Numerical measures of toxicity**

## **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
propane-1,2-diol	20000	20800	N/A	N/A	N/A
glycerol	12600	N/A	N/A	N/A	N/A

# Section 12. Ecological information

## **Toxicity**

Product/ingredient name	Result	Species	Exposure
propane-1,2-diol	Acute EC50 >110 ppm Fresh water Acute LC50 1020000 µg/l Fresh water	Daphnia - Daphnia magna Crustaceans - Ceriodaphnia dubia	48 hours 48 hours
	Acute LC50 710000 μg/l Fresh water	Fish - Pimephales promelas	96 hours

## Persistence and degradability

Not available.

## **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
propane-1,2-diol	-1.07	-	low
glycerol	-1.76		low

## **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects : No known significant effects or critical hazards.

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# Section 13. Disposal considerations

## **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# **Section 14. Transport information**

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.

**Additional information** 

Special precautions for user: Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in the

event of an accident or spillage.

Transport in bulk according: Not available. to Annex II of MARPOL and

the IBC Code

# Section 15. Regulatory information

: TSCA 8(a) CDR Exempt/Partial exemption: Not determined U.S. Federal regulations

Clean Water Act (CWA) 311: sodium hydroxide

Clean Air Act Section 112

(b) Hazardous Air **Pollutants (HAPs)**  : Not listed

Clean Air Act Section 602

: Not listed

Class | Substances

: Not listed

Clean Air Act Section 602 Class II Substances

**DEA List I Chemicals** (Precursor Chemicals) : Not listed

**DEA List II Chemicals** 

: Not listed

(Essential Chemicals)

**SARA 302/304** 

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# Section 15. Regulatory information

## Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

**SARA 311/312** 

Classification : Not applicable.

Composition/information on ingredients

Name	%	Classification
propane-1,2-diol	V	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2B
glycerol	≤10	EYE IRRITATION - Category 2B

## **State regulations**

Massachusetts : The following components are listed: GLYCERINE MIST

New York : None of the components are listed.

New Jersey: The following components are listed: PROPYLENE GLYCOL; 1,2-PROPANEDIOL;

GLYCERIN; 1,2,3-PROPANETRIOL

Pennsylvania : The following components are listed: 1,2-PROPANEDIOL; 1,2,3-PROPANETRIOL

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

## International regulations

## Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### **Montreal Protocol**

Not listed.

## Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

## **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

#### **Inventory list**

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

China : All components are listed or exempted.

Europe : All components are listed or exempted.

Japan inventory (ENCS): All components are listed or exempted.

Japan inventory (ISHL): Not determined.

New Zealand : All components are listed or exempted.

Philippines : All components are listed or exempted.

Republic of Korea : Not determined.

Taiwan : All components are listed or exempted.
Thailand : All components are listed or exempted.

Turkey: Not determined.

United States : All components are listed or exempted.Viet Nam : All components are listed or exempted.

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# Section 16. Other information

## **Hazardous Material Information System (U.S.A.)**



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

## **National Fire Protection Association (U.S.A.)**



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

## Procedure used to derive the classification

Classification	Justification
Not classified.	

#### History

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**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available SGG = Segregation Group UN = United Nations

References : Not available.

Indicates information that has changed from previously issued version.

#### Notice to reader

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Elmer's All Purpose Glue Stick

# Section 16. Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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# SAFETY DATA SHEET

# ELMIEK 5

Section 1. Identification

Product code : 99000LMR

Other means of identification

**GHS** product identifier

: Elmer's Paper Mache Art Paste

Product type : Solid.

Relevant identified uses of the substance or mixture and uses advised against

: Elmer's Art Paste

Elmer's Paper Mache Art Paste

Material uses : Arts & craft.

Manufacturer : Newell Brands, Inc.

6655 Peachtree Dunwoody Road

Sandy Springs, GA 30328

USA

800-323-0749

Emergency telephone number (with hours of

operation)

: CHEMTREC (U.S. and Canada) 1-800-424-9300 CHEMTREC (Outside the U.S.) +1-703-527-0585

## Section 2. Hazards identification

**OSHA/HCS** status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the

substance or mixture

: SKIN SENSITIZATION - Category 1

**GHS label elements** 

Hazard pictograms



Signal word : Warning

Hazard statements : May cause an allergic skin reaction.

Precautionary statements

Prevention : Wear protective gloves. Avoid breathing dust.

Response : Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water.

Storage : Not applicable.

Disposal : Dispose of contents and container in accordance with all local, regional, national and

international regulations.

Hazards not otherwise

classified

: None known.

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# Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Other means of identification

: Elmer's Paper Mache Art Paste

Ingredient name	%	CAS number
sodium chloride	≤5	7647-14-5
sodium hydrogencarbonate	≤4.5	144-55-8
glyoxal	<1	107-22-2

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

#### Description of necessary first aid measures

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10

minutes. Get medical attention if irritation occurs.

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If Inhalation

not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar,

tie, belt or waistband.

Skin contact : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash

contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any

shoes thoroughly before reuse.

complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean

: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person.

If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Ingestion

Eye contact : No known significant effects or critical hazards. : No known significant effects or critical hazards. Inhalation

Skin contact : May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

Eye contact : No specific data. Inhalation : No specific data.

Skin contact Adverse symptoms may include the following:

irritation redness

Ingestion : No specific data.

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## Section 4. First aid measures

## Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** 

Protection of first-aiders

: No specific treatment.

: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

#### See toxicological information (Section 11)

## Section 5. Fire-fighting measures

## **Extinguishing media**

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

: None known.

Specific hazards arising from the chemical

: No specific fire or explosion hazard.

Hazardous thermal decomposition products

 Decomposition products may include the following materials: carbon dioxide

carbon monoxide halogenated compounds metal oxide/oxides

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders:

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and materials for containment and cleaning up

Small spill

: Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

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## Section 6. Accidental release measures

#### Large spill

: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

#### Precautions for safe handling

#### **Protective measures**

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

#### Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limits

Ingredient name	Exposure limits
sodium chloride	None.
sodium hydrogencarbonate	None.
glyoxal	AIHA WEEL (United States, 7/2018). Skin
	sensitizer.
	TWA: 0.1 mg/m <sup>3</sup> 8 hours. Form: Aerosol
	ACGIH TLV (United States, 3/2020). Skin
	sensitizer.
	TWA: 0.1 mg/m³ 8 hours. Form: Inhalable fraction and vapor

#### Appropriate engineering controls

**Environmental exposure** controls

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants
- Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## **Individual protection measures**

#### Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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# Section 8. Exposure controls/personal protection

#### Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

#### Skin protection

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

#### **Appearance**

: Solid. Physical state

Color : White. [Light] Odor : Not available. Not available **Odor threshold** pH : Not available. **Melting point**  Not available. **Boiling point** : Not available. Flash point : Not available. : Not available. **Evaporation rate** 

Flammability (solid, gas) : Not available. Lower and upper explosive

(flammable) limits

octanol/water

: Not available.

: Not available. Vapor pressure Vapor density : Not available. : Not available. Relative density Solubility : Not available. : Not available. Solubility in water Partition coefficient: n-: Not available.

**Auto-ignition temperature** : Not available. Decomposition temperature : Not available. : Not available. Viscosity Flow time (ISO 2431) : Not available.

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## Section 10. Stability and reactivity

Reactivity: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced

# Section 11. Toxicological information

#### Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
sodium chloride	LD50 Oral	122 (2007) 7990	3000 mg/kg	-
sodium hydrogencarbonate	LD50 Oral	Rat	4220 mg/kg	-
glyoxal	LD50 Oral	Rat	200 mg/kg	<del>-</del>

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
sodium chloride	Eyes - Moderate irritant	Rabbit		24 hours 100 mg	-
	Eyes - Moderate irritant	Rabbit		10 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
sodium hydrogencarbonate	Eyes - Mild irritant	Rabbit	-	0.5 minutes	-
	-	1.00 00 00 00		100 mg	
	Skin - Mild irritant	Human		72 hours 30	_
	TO SECURE OF THE PROPERTY OF T	AND		mg I	
glyoxal	Eyes - Mild irritant	Rabbit	-	100 UI	-
	Eyes - Moderate irritant	Rabbit	<del>-</del>	24 hours 100	_
	*			UI	
	Eyes - Severe irritant	Rabbit	=0	20 mg	_
	Skin - Mild irritant	Rabbit	<u>=</u> 0	4 hours 500	_
	Anguine transmitted Annie - Deutsche Anguine aus aus Print de Prin	nc 1980 / ecsty (2007 TEX VIIIT		UI	
	Skin - Mild irritant	Rabbit	_	258 mg	_

#### Sensitization

Not available.

#### Mutagenicity

Not available.

#### Carcinogenicity

Not available.

#### Reproductive toxicity

Not available.

#### **Teratogenicity**

Not available.

## Specific target organ toxicity (single exposure)

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# Section 11. Toxicological information

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

Information on the likely : Not available.

routes of exposure

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

**Skin contact**: May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

irritation redness

Ingestion : No specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed to

very low levels.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

**Acute toxicity estimates** 

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# Section 11. Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
Elmer's Art Paste	4243.8	N/A	N/A	N/A	N/A
sodium chloride	3000	N/A	N/A	N/A	N/A
sodium hydrogencarbonate	4220	N/A	N/A	N/A	N/A
glyoxal	200	N/A	N/A	11	N/A

# Section 12. Ecological information

## **Toxicity**

Product/ingredient name	Result	Species	Exposure
sodium chloride	Acute EC50 2430000 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 519.6 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute EC50 402.6 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute IC50 6.87 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Morone saxatilis - Larvae	96 hours
	Chronic LC10 781 mg/l Fresh water	Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling)	3 weeks
	Chronic NOEC 6 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 0.314 g/L Fresh water	Daphnia - Daphnia pulex	21 days
	Chronic NOEC 100 mg/l Fresh water	Fish - Gambusia holbrooki - Adult	8 weeks
sodium hydrogencarbonate	Acute EC50 650000 µg/l Fresh water	Algae - Navicula seminulum	96 hours
, -	Acute LC50 767.87 mg/l Marine water	Crustaceans - Americamysis bahia	48 hours
	Acute LC50 7550 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours
	Chronic NOEC 576 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	3 weeks
glyoxal	Acute EC50 66480 μg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute LC50 215000 µg/l Fresh water	Fish - Pimephales promelas	96 hours

## Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
glyoxal	-1.62	3.2	low

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

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# Section 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# **Section 14. Transport information**

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-
Packing group	=	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in the

event of an accident or spillage.

Transport in bulk according : Not available.

to IMO instruments

# Section 15. Regulatory information

U.S. Federal regulations : TSCA 8(a) PAIR: glyoxal

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

: Not listed Clean Air Act Section 112

(b) Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602

Class | Substances

: Not listed

Clean Air Act Section 602

Class II Substances

: Not listed

**DEA List I Chemicals** 

(Precursor Chemicals)

: Not listed

**DEA List II Chemicals** (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

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# Section 15. Regulatory information

No products were found.

SARA 304 RQ : Not applicable.

**SARA 311/312** 

Classification : SKIN SENSITIZATION - Category 1

#### Composition/information on ingredients

Name	%	Classification
Hydroxypropyl methylcellulose sodium chloride sodium hydrogencarbonate glyoxal	≥75 - ≤90 ≤5 ≤4.5 <1	COMBUSTIBLE DUSTS EYE IRRITATION - Category 2A EYE IRRITATION - Category 2B ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 GERM CELL MUTAGENICITY - Category 2

#### State regulations

Massachusetts: None of the components are listed.New York: None of the components are listed.New Jersey: None of the components are listed.Pennsylvania: None of the components are listed.

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

#### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### **Montreal Protocol**

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

#### **Inventory list**

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

China : All components are listed or exempted.

Europe : Not determined.

Japan : Japan inventory (ENCS): All components are listed or exempted.

Japan inventory (ISHL): Not determined.

New Zealand : All components are listed or exempted.
Philippines : All components are listed or exempted.
Republic of Korea : All components are listed or exempted.
Taiwan : All components are listed or exempted.

Turkey : Not determined.

Not determined.

United States : All components are active or exempted.

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# Section 15. Regulatory information

Viet Nam : All components are listed or exempted.

## Section 16. Other information

## **Hazardous Material Information System (U.S.A.)**



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

#### **National Fire Protection Association (U.S.A.)**



#### Procedure used to derive the classification

Classification	Justification
SKIN SENSITIZATION - Category 1	Calculation method

#### **History**

Date of printing : 2/16/2022 Date of issue/Date of : 2/16/2022

revision

Date of previous issue : 2/16/2022

Version : 2

**Key to abbreviations** : ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available SGG = Segregation Group UN = United Nations

References : Not available.

Indicates information that has changed from previously issued version.

#### <u>Notice to reader</u>

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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Safety Data Sheet:
Material Name: Elmer's
Carpenter's Stainable Wood
Filler
SDS ID: SDS-1

Issue Date: 2014-08-07 Revision: 1.0

## **Other Sections**

01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16

## Section 1 - PRODUCT AND COMPANY IDENTIFICATION

#### **Material Name**

Elmer's Carpenter's Stainable Wood Filler

#### **Trade Names**

Elmer's Carpenter's Stainable Wood Filler

## **Synonyms**

E887Q; E889; E890; E891; E892

## **Product Use**

building/construction product

## **Restrictions on Use**

None known.

## **Manufacturer Information**

Elmer's Products, Inc. 460 Polaris Parkway, Suite 500 Westerville, OH 43082 USA

Phone:1-888-435-6377 Fax:1-800-741-6046

Email:comments@elmers.com

Emergency Phone Number: Poison Control Center 1-888-516-2502

For additional product information, access our website at www.elmers.com. To place an order, call 1-800-848-9400.

## **Section 2 - HAZARDS IDENTIFICATION**

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

None needed according to classification criteria

#### **GHS Label Elements**

## Symbol(s)

## Signal Word

None needed according to classification criteria

## **Hazard Statement(s)**

None needed according to classification criteria

## **Precautionary Statement(s)**

## Prevention

None needed according to classification criteria

## Response

None needed according to classification criteria

## Storage

None needed according to classification criteria

## **Disposal**

None needed according to classification criteria

## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
NA	Non-hazardous substance	100

## **Section 4 - FIRST AID MEASURES**

## Inhalation

If adverse effects occur, remove to uncontaminated area. If discomfort persists, contact a physician.

#### Skin

If on skin, wash immediately with plenty of soap and water. Get medical attention if irritation develops.

## **Eves**

Remove contact lenses, if present and easy to do. IMMEDIATELY wash with large amounts of warm water, occasionally lifting upper and lower lids, until no evidence of chemical remains (at least 15-20 minutes). Get medical attention immediately.

# **Ingestion**

Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious or convulsive person. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

# **Most Important Symptoms/Effects**

#### Acute

No information on significant adverse effects.

#### **Delayed**

No information on significant adverse effects.

## **Section 5 - FIRE FIGHTING MEASURES**

## **Extinguishing Media**

## Suitable Extinguishing Media

carbon dioxide, regular dry chemical, regular foam, water

## Unsuitable Extinguishing Media

None known.

## **Hazardous Combustion Products**

oxides of carbon

# Special Protective Equipment and Precautions for Firefighters

Slight fire hazard.

## Fire Fighting Measures

Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

## Section 6 - ACCIDENTAL RELEASE MEASURES

## Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment. See Section 8 for personal protection information.

## Methods and Materials for Containment and Cleaning Up

Stop leak if possible without personal risk. Absorb with earth, sand or other non-combustible material and transfer to container. Collect spilled material in appropriate container for disposal.

## Section 7 - HANDLING AND STORAGE

## **Precautions for Safe Handling**

Use only with adequate ventilation. Wash thoroughly after handling.

### Conditions for Safe Storage, Including any Incompatibilities

None needed according to classification criteria

Store in accordance with all current regulations and standards. Protect from freezing. Keep separated from incompatible substances.

### Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Component Exposure Limits**

ACGIH, NIOSH, EU, OSHA (US) and Mexico have not developed exposure limits for any of this product's components

### **Biological limit value**

There are no biological limit values for any of this product's components.

### **Engineering Controls**

Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

### Individual Protection Measures, such as Personal Protective Equipment

### Eye/face protection

Wear splash resistant safety goggles. When sanding: Wear safety glasses or safety goggles, with a faceshield, as appropriate. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

#### **Skin Protection**

Wear appropriate chemical resistant clothing.

### **Respiratory Protection**

Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before use. Any chemical cartridge respirator with organic vapor cartridge(s). Any chemical cartridge respirator with a full facepiece and organic vapor cartridge(s). Any air-purifying respirator with a full facepiece and an organic vapor canister. For Unknown Concentrations or Immediately Dangerous to Life or Health -. Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode. Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

#### **Glove Recommendations**

Wear appropriate chemical resistant gloves.

### Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	paste	Physical State	Liquid
Odor	mild acrylic odor	Color	beige

Odor Threshold	Not available	рН	8.3 - 9.2
Melting Point	Not available	Boiling Point	100 °C
Freezing point	0 °C	Evaporation Rate	Not available
<b>Boiling Point Range</b>	Not available	Flammability (solid, gas)	Not flammable
Autoignition	Not available	Flash Point	Not available
Lower Explosive Limit	Not available	Decomposition	Not available
Upper Explosive Limit	Not available	Vapor Pressure	Not available
Vapor Density (air=1)	Not available	Specific Gravity (water=1)	1.038
Water Solubility	miscible	Partition coefficient: n-octanol/water	Not available
Viscosity	Not available	Solubility (Other)	Not available
Density	Not available	Physical Form	paste
Percent Solids	76 - 78 %		

# **Section 10 - STABILITY AND REACTIVITY**

## Reactivity

No hazard expected.

### **Chemical Stability**

Stable at normal temperatures and pressure.

### **Possibility of Hazardous Reactions**

Will not polymerize.

### **Conditions to Avoid**

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

### **Incompatible Materials**

strong oxidizing materials.

## Hazardous decomposition products

### Combustion

oxides of carbon

# **Section 11 - TOXICOLOGICAL INFORMATION**

## **Information on Likely Routes of Exposure**

### Inhalation

No information on significant adverse effects.

#### **Skin Contact**

No information on significant adverse effects.

### **Eye Contact**

May cause irritation.

### Ingestion

No information on significant adverse effects.

## **Acute and Chronic Toxicity**

### Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and no selected endpoints have been identified

#### **Immediate Effects**

No information on significant adverse effects.

### **Delayed Effects**

No information on significant adverse effects.

## Irritation/Corrosivity Data

No information on significant adverse effects.

### **Respiratory Sensitization**

No information available for the product.

### **Dermal Sensitization**

No information available for the product.

### **Component Carcinogenicity**

None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA

### Germ Cell Mutagenicity

No information available for the product.

### **Reproductive Toxicity**

No information available for the product.

### **Specific Target Organ Toxicity - Single Exposure**

No target organs identified.

### Specific Target Organ Toxicity - Repeated Exposure

No target organs identified.

### Aspiration hazard

No data available.

### Medical Conditions Aggravated by Exposure

No data available.

### **Section 12 - ECOLOGICAL INFORMATION**

### **Component Analysis - Aquatic Toxicity**

No LOLI ecotoxicity data are available for this product's components

### Persistence and Degradability

No information available for the product.

### **Bioaccumulative Potential**

No information available for the product.

### **Biodegradation**

No information available for the product.

### Section 13 - DISPOSAL CONSIDERATIONS

### **Disposal Methods**

Dispose in accordance with all applicable regulations.

### **Component Waste Numbers**

The U.S. EPA has not published waste numbers for this product's components

### Section 14 - TRANSPORT INFORMATION

#### **US DOT Information:**

UN/NA #: Not regulated.

#### **TDG Information:**

**UN#:** Not regulated.

## **Section 15 - REGULATORY INFORMATION**

### **U.S. Federal Regulations**

None of this products components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

SARA Section 311/312 (40 CFR 370 Subparts B and C)

Acute Health: No Chronic Health: No Fire: No Pressure: No Reactivity: No

### **U.S. State Regulations**

None of this product's components are listed on the state lists from CA, MA, MN, NJ or PA

### Not listed under California Proposition 65

### **Canada Regulations**

This product has been classified in accordance with the criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

### Canadian WHMIS Ingredient Disclosure List (IDL)

The components of this product are either not listed on the IDL or are present below the threshold limit listed on the IDL.

#### WHMIS Classification

Not a Controlled Product under Canada's Workplace Hazardous Material Information System.

**Component Analysis - Inventory** 

Component	CAS#	US	CA	EU	AU				KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Non- hazardous substance	NA	No	No	No	No	No							

### **U.S. Inventory (TSCA)**

All the components of this substance are listed on or are exempt from the inventory.

#### **Section 16 - OTHER INFORMATION**

#### **NFPA Ratings**

Health: 1 Fire: 1 Reactivity: 0 Other:

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

# **Summary of Changes**

New SDS: 08/07/2014

#### Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of LIsts<sup>TM</sup> - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection

Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

### **Other Information**

Reasonable care has been taken in the preparation of this information; however, the manufacturer makes no warranty whatsoever including the warranty of merchantability, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental, consequential, or other such damages resulting from its use or misuse.

#### Disclaimer:

Supplier gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser shall determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights



# SAFETY DATA SHEET

# Section 1. Identification

GHS product identifier : Elmer's Carpenter's Wood Filler

Product code : E842L, E847D12, E848D12, E849D8, E868, E892, 60842, 60848, 60849

Other means of identification

: Elmer's Carpenter's Interior Wood Filler

Product type : Solid.

Relevant identified uses of the substance or mixture and uses advised against

Not applicable.

Material uses : Not available.

Manufacturer : Newell Brands, Inc.

6655 Peachtree Dunwoody Road

Sandy Springs, GA 30328

USA

800-323-0749

Emergency telephone number (with hours of

operation)

: CHEMTREC (U.S. and Canada) 1-800-424-9300 CHEMTREC (Outside the U.S.) +1-703-527-0585

## Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Classification of the substance or mixture

: CARCINOGENICITY - Category 1A

**GHS label elements** 

Hazard pictograms :



Signal word : Danger

**Hazard statements**: May cause cancer.

**Precautionary statements** 

Prevention : Obtain special instructions before use. Wear protective gloves, protective clothing and

eye or face protection.

**Response**: IF exposed or concerned: Get medical advice or attention.

Storage : Store locked up.

Disposal : Dispose of contents and container in accordance with all local, regional, national and

international regulations.

Hazards not otherwise

classified

: None known.

Date of issue/Date of revision : 2/15/2021 Date of previous issue : 1/27/2021 Version : 2 1/11

Elmer's Carpenter's Wood Filler

# Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Other means of identification

: Elmer's Carpenter's Interior Wood Filler

Ingredient name	%	CAS number
Limestone containing > 0.1 and < 1% crystalline silica propane-1,2-diol crystalline silica, non-respirable	≥50 - ≤75 ≤3 ≤0.3	1317-65-3 57-55-6 14808-60-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### **Description of necessary first aid measures**

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### Most important symptoms/effects, acute and delayed

### Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

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## Section 4. First aid measures

# **Specific treatments**

: No specific treatment.

### **Protection of first-aiders**

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

### See toxicological information (Section 11)

# Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

: None known.

Specific hazards arising from the chemical

: No specific fire or explosion hazard.

Hazardous thermal decomposition products : Decomposition products may include the following materials: carbon dioxide

carbon monoxide metal oxide/oxides

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

**Small spill** 

: Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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# Section 7. Handling and storage

#### Precautions for safe handling

#### **Protective measures**

Put on appropriate personal protective equipment (see Section 8). Avoid exposure obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

### Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limits

Ingredient name	Exposure limits
Limestone containing > 0.1 and < 1% crystalline silica	OSHA PEL 1989 (United States, 3/1989).  TWA: 5 mg/m³ 8 hours. Form: Respirable fraction  TWA: 15 mg/m³ 8 hours. Form: Total dust  OSHA PEL (United States, 5/2018).  TWA: 5 mg/m³ 8 hours. Form: Respirable fraction  TWA: 15 mg/m³ 8 hours. Form: Total dust  NIOSH REL (United States, 10/2016).  TWA: 5 mg/m³ 10 hours. Form: Respirable fraction  TWA: 10 mg/m³ 10 hours. Form: Total
propane-1,2-diol crystalline silica, non-respirable	Alha WEEL (United States, 7/2018).  TWA: 10 mg/m³ 8 hours.  OSHA PEL (United States, 5/2018).  TWA: 50 μg/m³ 8 hours. Form: Respirable dust  OSHA PEL Z3 (United States, 6/2016).  TWA: 30 mg/m³ / (%SiO2+2) 8 hours. Form: Total dust

#### Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### **Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### Individual protection measures

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# Section 8. Exposure controls/personal protection

### **Hygiene measures**

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

#### **Skin protection**

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

# Section 9. Physical and chemical properties

#### **Appearance**

**Physical state** : Solid.

: Tan. [Light] Color Odor : Not available. Odor threshold : Not available. pH : 8.7 to 9.2 **Melting point** : Not available. : Not available. **Boiling point** Flash point : Not available. **Evaporation rate** : Not available.

Flammability (solid, gas) Lower and upper explosive

(flammable) limits

: Not available. : Not available.

: Not available. Vapor pressure Vapor density : Not available. **Relative density** : Not available. Solubility : Not available. Not available. Solubility in water Partition coefficient: n-: Not available. octanol/water

**Auto-ignition temperature** 

: Not available. **Decomposition temperature** : Not available. : Not available. Viscosity Flow time (ISO 2431) Not available.

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# Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

**Hazardous decomposition** 

products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

# Section 11. Toxicological information

### Information on toxicological effects

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
propane-1,2-diol	LD50 Dermal	Rabbit	20800 mg/kg	-
	LD50 Oral	Rat	20 g/kg	-

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
propane-1,2-diol	Eyes - Mild irritant	Rabbit	-	24 hours 500	
	97			mg	
	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Child		96 hours 30	-
				% C	
	Skin - Mild irritant	Human		168 hours	-
	Score (Charles) - Charles	1990 - 990 CO - 2011 CO - 2011 MO		500 mg	
	Skin - Moderate irritant	Human	-	72 hours 104	-
	Schoolster (State ) Mittel particles in religible of the walk from the interest of the state of			mg I	
	Skin - Mild irritant	Woman	1-	96 hours 30	_
		× 15.		%	

#### Sensitization

Not available.

#### **Mutagenicity**

Not available.

### Carcinogenicity

Not available.

### Classification

Product/ingredient name	OSHA	IARC	NTP
crystalline silica, non- respirable	-	1	Known to be a human carcinogen.

#### Reproductive toxicity

Not available.

#### **Teratogenicity**

Not available.

## Specific target organ toxicity (single exposure)

Not available.

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# Section 11. Toxicological information

### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

Information on the likely routes of exposure

: Not available.

#### Potential acute health effects

Eye contact : No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards. Skin contact : No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards.

## Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : No specific data. Inhalation : No specific data. Skin contact : No specific data. Ingestion : No specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate

Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

#### Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : May cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : No known significant effects or critical hazards. **Teratogenicity** : No known significant effects or critical hazards. **Developmental effects** : No known significant effects or critical hazards. **Fertility effects** : No known significant effects or critical hazards.

## **Numerical measures of toxicity**

### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
propane-1,2-diol	20000	20800	N/A	N/A	N/A

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# Section 12. Ecological information

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
4. The first of the 18 Color (18 Col	[10] [10] 11:16] [10]	Daphnia - Daphnia magna Crustaceans - Ceriodaphnia dubia	48 hours 48 hours
	Acute LC50 710000 μg/l Fresh water	Fish - Pimephales promelas	96 hours

### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
propane-1,2-diol	-1.07	-	low

#### Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

# Section 13. Disposal considerations

#### **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.

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Elmer's Carpenter's Wood Filler

# **Section 14. Transport information**

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according: Not available.

to IMO instruments

# Section 15. Regulatory information

U.S. Federal regulations

: TSCA 8(a) PAIR: Poly(oxy-1,2-ethanediyl), α-

 $[(1,1,3,3-\text{tetramethylbutyl})\text{phenyl}]-\omega-\text{hydroxy-}; 4-\text{Nonylphenol}, branched, ethoxylated};$ 

acetaldehyde

TSCA 8(a) CDR Exempt/Partial exemption: Not determined Clean Water Act (CWA) 311: acetaldehyde; vinyl acetate

Clean Air Act Section 112

(b) Hazardous Air

: Listed

Pollutants (HAPs)

Clean Air Act Section 602

Class | Substances

: Not listed

Clean Air Act Section 602

Class II Substances

: Not listed

**DEA List I Chemicals** 

: Not listed

(Precursor Chemicals) **DEA List II Chemicals** 

: Not listed

(Essential Chemicals)

### **SARA 302/304**

#### Composition/information on ingredients

			SARA 302 TPQ		SARA 304 RQ	
Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
vinyl acetate	≤0.1	Yes.	1000	129	5000	644.8

SARA 304 RQ : 833333333.3 lbs / 378333333.3 kg

**SARA 311/312** 

Classification : CARCINOGENICITY - Category 1A

### Composition/information on ingredients

Name	%	Classification
Limestone containing > 0.1 and < 1% crystalline silica	≥50 - ≤75	CARCINOGENICITY - Category 1A
propane-1,2-diol		SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2B
crystalline silica, non-respirable	≤0.3	CARCINOGENICITY - Category 1A

#### State regulations

Massachusetts : The following components are listed: CALCIUM CARBONATE; MARBLE DUST

**New York** : None of the components are listed.

: The following components are listed: CALCIUM CARBONATE; LIMESTONE; **New Jersey** PROPYLENE GLYCOL; 1,2-PROPANEDIOL; SILICA, QUARTZ; QUARTZ (SiO2)

Pennsylvania : The following components are listed: LIMESTONE; 1,2-PROPANEDIOL; QUARTZ DUST; QUARTZ

#### California Prop. 65

MARNING: This product can expose you to chemicals including Silica, crystalline and acetaldehyde, which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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# Section 15. Regulatory information

Ingredient name		Maximum acceptable dosage level
Silica, crystalline acetaldehyde	- Yes.	-

#### International regulations

### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### **Montreal Protocol**

Not listed.

### Stockholm Convention on Persistent Organic Pollutants

Not listed.

### **Rotterdam Convention on Prior Informed Consent (PIC)**

Not listed.

### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

### **Inventory list**

Australia : Not determined.

**Canada** : All components are listed or exempted.

China : Not determined.

Europe : Not determined.

Japan : Japan inventory (ENCS): Not determined.

Japan inventory (ISHL): Not determined.

**New Zealand** : All components are listed or exempted.

Philippines : Not determined.

Republic of Korea : Not determined.

Taiwan : All components are listed or exempted.

Thailand : Not determined.

Turkey : Not determined.

United States : All components are active or exempted.Viet Nam : All components are listed or exempted.

# Section 16. Other information

### **Hazardous Material Information System (U.S.A.)**



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

**National Fire Protection Association (U.S.A.)** 

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# Section 16. Other information



### Procedure used to derive the classification

Classification	Justification	
CARCINOGENICITY - Category 1A	Calculation method	

#### **History**

Date of printing : 2/15/2021

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revision

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**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available SGG = Segregation Group UN = United Nations

References : Not available.

Indicates information that has changed from previously issued version.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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23892-1005



### Safety Data Sheet

### Material Name: Elmer's Carpenter's Wood Glue-MAX

#### Section 1 - PRODUCT AND COMPANY IDENTIFICATION

#### **Material Name**

Elmer's Carpenter's Wood Glue-MAX

#### **Synonyms**

69220, 69221, 69222, 69224 E7290 E7300 E7310 E7330 ProBond MAx Wood Glue

#### **Product Use**

adhesives

#### Restrictions on Use

None known.

#### Details of the supplier of the safety data sheet

Newell Office Brands Product of Newell Office Brands, Inc. 6655 Peachtree Dunwoody Rd. NE Atlanta, GA 30328 www.elmers.com Phone: 1.888.435.6377

Emergency Phone #: 1.888.516.2502

#### Section 2 - HAZARDS IDENTIFICATION

#### Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

None needed according to classification criteria

#### **GHS Label Elements**

#### Symbol(s)

None needed according to classification criteria

#### Signal Word

None needed according to classification criteria

#### **Hazard Statement(s)**

None needed according to classification criteria.

#### **Precautionary Statement(s)**

#### Prevention

None needed according to classification criteria.

#### Response

None needed according to classification criteria.

#### Storage

None needed according to classification criteria.

#### Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
NA	Non-hazardous substance	100

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### Safety Data Sheet

#### Material Name: Elmer's Carpenter's Wood Glue-MAX

#### Section 4 - FIRST AID MEASURES

#### Inhalation

If adverse effects occur, remove to uncontaminated area. If discomfort persists, contact a physician.

#### Skin

If on skin, wash immediately with plenty of soap and water. Get medical attention if irritation develops.

#### Eves

Remove contact lenses, if present and easy to do. IMMEDIATELY wash with large amounts of warm water, occasionally lifting upper and lower lids, until no evidence of chemical remains (at least 15-20 minutes). Get medical attention immediately.

#### Ingestion

Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious or convulsive person. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

#### Most Important Symptoms/Effects

#### Acute

No information on significant adverse effects.

#### Delayed

No information on significant adverse effects.

#### Section 5 - FIRE FIGHTING MEASURES

#### **Extinguishing Media**

#### Suitable Extinguishing Media

carbon dioxide, regular dry chemical, regular foam, water

#### Unsuitable Extinguishing Media

None known.

#### **Hazardous Combustion Products**

oxides of carbon

#### Advice for firefighters

Slight fire hazard.

#### Fire Fighting Measures

Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

#### Section 6 - ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment. See Section 8 for personal protection information.

#### Methods and Materials for Containment and Cleaning Up

Stop leak if possible without personal risk. Absorb with earth, sand or other non-combustible material and transfer to container. Collect spilled material in appropriate container for disposal.

#### Section 7 - HANDLING AND STORAGE

### **Precautions for Safe Handling**

Use only with adequate ventilation. Wash thoroughly after handling.

#### Conditions for Safe Storage, Including any Incompatibilities

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### Safety Data Sheet

#### Material Name: Elmer's Carpenter's Wood Glue-MAX

None needed according to classification criteria.

Store in accordance with all current regulations and standards. Keep separated from incompatible substances.

#### **Incompatible Materials**

oxides of carbon.

#### Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Component Exposure Limits**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

#### ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)

There are no biological limit values for any of this product's components.

#### **Engineering Controls**

Based on available information, additional ventilation is not required. Ensure compliance with applicable exposure limits.

#### Individual Protection Measures, such as Personal Protective Equipment

#### Eye/face protection

Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

#### **Skin Protection**

Protective clothing is not required under normal conditions.

#### **Respiratory Protection**

No respirator is required under normal conditions of use. Under conditions of frequent use or heavy exposure, respiratory protection may be needed.

#### **Glove Recommendations**

Protective gloves are not required under normal conditions.

#### Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	beige liquid	Physical State	Liquid
Odor	Not available	Color	beige
Odor Threshold	Not available	рН	2.4 - 2.8
Melting Point	Not available	Boiling Point	100 °C
Boiling Point Range	Not available	Freezing point	0 °C
Evaporation Rate	Not available	Flammability (solid, gas)	Not flammable
Autoignition Temperature	Not available	Flash Point	Not available
Lower Explosive Limit	Not available	Decomposition temperature	Not available
Upper Explosive Limit	Not available	Vapor Pressure	Not available
Vapor Density (air=1)	Not available	Specific Gravity (water=1)	1.1 - 1.13
Water Solubility	dispersible	Partition coefficient: n-octanol/water	Not available

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### Safety Data Sheet

#### Material Name: Elmer's Carpenter's Wood Glue-MAX

Viscosity	Not available	Kinematic viscosity	Not available
Solubility (Other)	Not available	Density	9.2 - 9.4
Physical Form	liquid	Molecular Weight	Not available

#### Section 10 - STABILITY AND REACTIVITY

#### Reactivity

No hazard expected.

#### **Chemical Stability**

Stable at normal temperatures and pressure.

#### **Possibility of Hazardous Reactions**

Will not polymerize.

#### **Conditions to Avoid**

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

#### **Incompatible Materials**

strong oxidizing materials.

#### Hazardous decomposition products

#### Combustion

oxides of carbon

#### Section 11 - TOXICOLOGICAL INFORMATION

# Information on Likely Routes of Exposure

#### Inhalation

No information on significant adverse effects.

### Skin Contact

No information on significant adverse effects.

#### **Eye Contact**

No information on significant adverse effects.

#### Ingestion

No information on significant adverse effects.

#### **Acute and Chronic Toxicity**

#### Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and no selected endpoints have been identified.

#### **Product Toxicity Data**

#### **Acute Toxicity Estimate**

No data available.

#### **Immediate Effects**

No information on significant adverse effects.

#### **Delayed Effects**

No information on significant adverse effects.

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### Safety Data Sheet

### Material Name: Elmer's Carpenter's Wood Glue-MAX

#### Irritation/Corrosivity Data

No information on significant adverse effects.

#### **Respiratory Sensitization**

No information available for the product.

#### **Dermal Sensitization**

No information available for the product.

#### **Component Carcinogenicity**

None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA

#### **Germ Cell Mutagenicity**

No information available for the product.

#### **Tumorigenic Data**

No data available

#### Reproductive Toxicity

No information available for the product.

#### Specific Target Organ Toxicity - Single Exposure

No target organs identified.

#### Specific Target Organ Toxicity - Repeated Exposure

No target organs identified.

#### Aspiration hazard

No data available.

#### Medical Conditions Aggravated by Exposure

No data available.

#### Section 12 - ECOLOGICAL INFORMATION

#### **Component Analysis - Aquatic Toxicity**

No LOLI ecotoxicity data are available for this product's components.

#### Persistence and Degradability

No information available for the product.

#### **Bioaccumulative Potential**

No information available for the product.

#### Biodegradation

No information available for the product.

#### Section 13 - DISPOSAL CONSIDERATIONS

#### **Disposal Methods**

Dispose in accordance with all applicable regulations.

#### **Component Waste Numbers**

The U.S. EPA has not published waste numbers for this product's components.

### Section 14 - TRANSPORT INFORMATION

#### **US DOT Information:**

UN/NA #: Not regulated.

Page 5 of 7 Issue date: 2020-03-22 Revision 3.0 Print date: 2020-03-22

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### Safety Data Sheet

#### Material Name: Elmer's Carpenter's Wood Glue-MAX

# TDG Information: UN#: Not regulated.

#### **International Bulk Chemical Code**

This material does not contain any chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

#### Section 15 - REGULATORY INFORMATION

#### U.S. Federal Regulations

None of this products components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

#### SARA Section 311/312 (40 CFR 370 Subparts B and C) 2016 reporting categories

Acute Health: No Chronic Health: No Fire: No Pressure: No Reactivity: No

SARA Section 311/312 (40 CFR 370 Subparts B and C) 2017 reporting categories

No hazard categories applicable.

#### **U.S. State Regulations**

None of this product's components are listed on the state lists from CA, MA, MN, NJ or PA

#### Not listed under California Proposition 65

#### Canada Regulations

#### Canadian WHMIS Ingredient Disclosure List (IDL)

The components of this product are either not listed on the IDL or are present below the threshold limit listed on the IDL.

#### WHMIS Classification

Not a Controlled Product under Canada's Workplace Hazardous Material Information System

#### Component Analysis - Inventory

#### Non-hazardous substance (NA)

US	CA	EU	AU	РН	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
No	No	No	No	No	No	No	No	No	No	No	No	No	No

#### U.S. Inventory (TSCA)

All the components of this substance are listed on or are exempt from the inventory.

#### Section 16 - OTHER INFORMATION

#### **NFPA Ratings**

Health: 1 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

#### Summary of Changes Updated SDS: 3/22/2020

#### Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania\*; CAS - Chemical Abstracts Service; CFR - Code of

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### Safety Data Sheet

#### Material Name: Elmer's Carpenter's Wood Glue-MAX

Federal Regulations (US); CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG -Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EC - European Commission; EEC - European Economic Community; EIN -European Inventory of (Existing Commercial Chemical Substances); EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL -Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL), KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of LIstsTM -ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL -Maximum Exposure Limits; MX - Mexico; NDSL - Non-Domestic Substance List (Canada); NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL- Permissible Exposure Limit; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TCCA - Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TLV - Threshold Limit Value; TSCA Toxic Substances Control Act; TW - Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States; VLE - Exposure Limit Value (Mexico); WHMIS -Workplace Hazardous Materials Information System (Canada).

#### Other Information

#### Disclaimer:

Supplier gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser shall determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.

Item Numbers: 23892-1005, 23892-1006 Page 7 of 7



Safety Data Sheet:

Material Name: Elmer's Clear

School Glue SDS ID: SDS-65

Issue Date: 2014-12-16

Revision: .

### **Other Sections**

01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16

# Section 1 - PRODUCT AND COMPANY IDENTIFICATION

#### **Material Name**

Elmer's Clear School Glue

### **Trade Names**

Elmer's Clear School Glue

### **Synonyms**

E305, E60305, E65001

#### **Product Use**

adhesives

### Restrictions on Use

None known.

# Manufacturer Information

Elmer's Products, Inc. 460 Polaris Parkway, Suite 500 Westerville, OH 43082 USA

Phone:1-888-435-6377 Fax:1-800-741-6046

Email:comments@elmers.com

Emergency Phone Number:

Poison Control Center

1-888-516-2502

For additional product information, access our website at www.elmers.com. To place an order, call 1-800-848-9400.

# **Section 2 - HAZARDS IDENTIFICATION**

# Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

None needed according to classification criteria

### **GHS Label Elements**

### Symbol(s)

None needed according to classification criteria

# Signal Word

None needed according to classification criteria

### Hazard Statement(s)

None needed according to classification criteria

## Precautionary Statement(s)

### Prevention

None needed according to classification criteria

## Response

None needed according to classification criteria

## Storage

None needed according to classification criteria

# Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations

# Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
NA	Non-hazardous substance	100

# **Section 4 - FIRST AID MEASURES**

### Inhalation

If adverse effects occur, remove to uncontaminated area. If discomfort persists, contact a physician.

### Skin

If on skin, wash immediately with plenty of soap and water. Get medical attention if irritation develops.

### Eyes

Remove contact lenses, if present and easy to do. IMMEDIATELY wash with large amounts of warm water, occasionally lifting upper and lower lids, until no evidence of chemical remains (at least 15-20 minutes). Get medical attention immediately.

## Ingestion

Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious or convulsive person. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

# Most Important Symptoms/Effects

#### Acute

No information on significant adverse effects.

### Delayed

No information on significant adverse effects.

### Section 5 - FIRE FIGHTING MEASURES

# **Extinguishing Media**

### Suitable Extinguishing Media

carbon dioxide, regular dry chemical, regular foam, water

### Unsuitable Extinguishing Media

None known.

### **Hazardous Combustion Products**

oxides of carbon

# Special Protective Equipment and Precautions for Firefighters

Slight fire hazard.

## Fire Fighting Measures

Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

# **Section 6 - ACCIDENTAL RELEASE MEASURES**

# Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment. See Section 8 for personal protection information.

# Methods and Materials for Containment and Cleaning Up

Stop leak if possible without personal risk. Absorb with earth, sand or other non-combustible material and transfer to container. Collect spilled material in appropriate container for disposal.

# **Section 7 - HANDLING AND STORAGE**

# **Precautions for Safe Handling**

Use only with adequate ventilation. Wash thoroughly after handling.

# Conditions for Safe Storage, Including any Incompatibilities

None needed according to classification criteria

Store in accordance with all current regulations and standards. Keep separated from incompatible substances.

# **Incompatible Materials**

oxides of carbon.

# Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

# **Component Exposure Limits**

ACGIH, NIOSH, EU, OSHA (US) and Mexico have not developed exposure limits for any of this product's components

# Biological limit value

There are no biological limit values for any of this product's components.

# **Engineering Controls**

Based on available information, additional ventilation is not required. Ensure compliance with applicable exposure limits.

# Individual Protection Measures, such as Personal Protective Equipment

# Eye/face protection

Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

### **Skin Protection**

Protective clothing is not required under normal conditions.

### **Respiratory Protection**

No respirator is required under normal conditions of use. Under conditions of frequent use or heavy exposure, respiratory protection may be needed.

### Glove Recommendations

Protective gloves are not required under normal conditions.

## **Section 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	liquid	Physical State	Liquid
Odor	mild odor	Color	clear
Odor Threshold	Not available	рН	4.5
Melting Point	Not available	Boiling Point	100 °C
Freezing point	0 °C	Evaporation Rate	Not available
<b>Boiling Point Range</b>	Not available	Flammability (solid, gas)	Not flammable
Autoignition	Not available	Flash Point	Not available
Lower Explosive Limit	Not available	Decomposition	Not available
Upper Explosive Limit	Not available	Vapor Pressure	Not available
Vapor Density (air=1)	Not available	Specific Gravity (water=1)	1.03
Water Solubility	miscible	Partition coefficient: n-octanol/water	Not available
Viscosity	Not available	Solubility (Other)	Not available
Density	8.6	Physical Form	liquid

# **Section 10 - STABILITY AND REACTIVITY**

# Reactivity

No hazard expected.

# **Chemical Stability**

Stable at normal temperatures and pressure.

# Possibility of Hazardous Reactions

Will not polymerize.

### Conditions to Avoid

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

# **Incompatible Materials**

strong oxidizing materials.

# Hazardous decomposition products

### Combustion

oxides of carbon

### Section 11 - TOXICOLOGICAL INFORMATION

# Information on Likely Routes of Exposure

#### Inhalation

No information on significant adverse effects.

#### **Skin Contact**

No information on significant adverse effects.

### **Eye Contact**

No information on significant adverse effects.

### Ingestion

No information on significant adverse effects.

# Acute and Chronic Toxicity

# Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and no selected endpoints have been identified

### **Immediate Effects**

No information on significant adverse effects.

### **Delayed Effects**

No information on significant adverse effects.

# Irritation/Corrosivity Data

No information on significant adverse effects.

# Respiratory Sensitization

No information available for the product.

### **Dermal Sensitization**

No information available for the product.

## Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA

# Germ Cell Mutagenicity

No information available for the product.

# Reproductive Toxicity

No information available for the product.

# Specific Target Organ Toxicity - Single Exposure

No target organs identified.

## Specific Target Organ Toxicity - Repeated Exposure

No target organs identified.

## Aspiration hazard

No data available.

# Medical Conditions Aggravated by Exposure

No data available.

### Section 12 - ECOLOGICAL INFORMATION

# Component Analysis - Aquatic Toxicity

No LOLI ecotoxicity data are available for this product's components

# Persistence and Degradability

No information available for the product.

### **Bioaccumulative Potential**

No information available for the product.

# Biodegradation

No information available for the product.

### Section 13 - DISPOSAL CONSIDERATIONS

# Disposal Methods

Dispose in accordance with all applicable regulations.

# **Component Waste Numbers**

The U.S. EPA has not published waste numbers for this product's components

### Section 14 - TRANSPORT INFORMATION

#### **US DOT Information**:

UN/NA #: Not regulated.

### TDG Information:

**UN#:** Not regulated.

### **IATA Information:**

No Classification assigned.

### Section 15 - REGULATORY INFORMATION

## U.S. Federal Regulations

None of this products components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

SARA Section 311/312 (40 CFR 370 Subparts B and C)

Acute Health: No Chronic Health: No Fire: No Pressure: No Reactivity: No

### **U.S. State Regulations**

None of this product's components are listed on the state lists from CA, MA, MN, NJ or PA

# Not listed under California Proposition 65

### Canada Regulations

This product has been classified in accordance with the criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

# Canadian WHMIS Ingredient Disclosure List (IDL)

The components of this product are either not listed on the IDL or are present below the threshold limit listed on the IDL.

#### WHMIS Classification

Not a Controlled Product under Canada's Workplace Hazardous Material Information System.

# Component Analysis - Inventory

### U.S. Inventory (TSCA)

All the components of this substance are listed on or are exempt from the inventory.

## **Section 16 - OTHER INFORMATION**

Health: 1 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

# **Summary of Changes**

New SDS: 11/06/2014

## Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS -Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC -European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC -International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow -Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of LIsts™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA -Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL -Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

#### Other Information

Reasonable care has been taken in the preparation of this information; however, the manufacturer makes no warranty whatsoever including the warranty of merchantability, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental, consequential, or other such damages resulting from its use or misuse.

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Safety Data Sheet:
Material Name: Elmer's
Disappearing Purple Glue
Stick
SDS ID: SDS-89

Issue Date: 2015-04-22 Revision: .

#### **Other Sections**

01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16

## Section 1 - PRODUCT AND COMPANY IDENTIFICATION

### **Material Name**

Elmer's Disappearing Purple Glue Stick

#### **Synonyms**

E1558, E1559, E1560, E1573, E1591, E238, E239, E310, E4051, E4053, E4055, E4057, E5007, E5009, E502, E503, E5042, E5051, E506, E508, E513, E514, E520, E522, E5223, E523, E524, E543, E546, E555, E558, E261, E562, E576, E578, E60520, E64051, E64523, 60320, 60554, 60555, 61576, 61592, 61665, 61667, 61668, 61669, 61715, 62428, 60307, 61665, 61666, 61669, 62428

#### **Product Use**

Adhesive

### Restrictions on Use

None known

#### Manufacturer Information

Elmer's Products, Inc 460 Polaris Parkway, Suite 500 Westerville, OH 43082 USA

Phone:1-888-435-6377 Fax:1-800-741-6046

Email:comments@elmers.com

Emergency Phone Number: Poison Control Center 1-888-516-2502

For additional product information, access our website at www.elmers.com. To place an order, call 1-800-848-9400.

### Section 2 - HAZARDS IDENTIFICATION

# Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

None needed according to classification criteria

### **GHS Label Elements**

## Symbol(s)

None needed according to classification criteria

### Signal Word

None needed according to classification criteria

# **Hazard Statement(s)**

None needed according to classification criteria

# Precautionary Statement(s)

#### Prevention

None needed according to classification criteria

### Response

None needed according to classification criteria

### Storage

None needed according to classification criteria

### **Disposal**

Dispose of contents/container in accordance with local/regional/national/international regulations

# Statement of Unknown Toxicity

100% of the mixture consists of ingredient(s) of unknown acute toxicity.

### Other Hazards

No data available

# **Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS**

CAS	Component Name	Percent		
Not available	Non-hazardous substance	100		

### **Section 4 - FIRST AID MEASURES**

### Inhalation

If adverse effects occur, remove to uncontaminated area. If discomfort persists, contact a physician.

#### Skin

If on skin, wash immediately with plenty of soap and water. Get medical attention if irritation develops.

### Eyes

Remove contact lenses, if present and easy to do. IMMEDIATELY wash with large amounts of warm water, occasionally lifting upper and lower lids, until no evidence of chemical remains (at least 15-20 minutes). Get medical attention immediately.

### Ingestion

Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious or convulsive person. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

Indication of any immediate medical attention and special treatment needed Treat symptomatically and supportively.

## Most Important Symptoms/Effects

#### Acute

No information on significant adverse effects.

#### Delayed

No information on significant adverse effects.

### **Section 5 - FIRE FIGHTING MEASURES**

# **Extinguishing Media**

### Suitable Extinguishing Media

Use carbon dioxide, regular dry chemical, regular foam or water.

### Unsuitable Extinguishing Media

None known.

# Special Hazards Arising from the Chemical

Slight fire hazard.

#### **Hazardous Combustion Products**

oxides of carbon

# Special Protective Equipment and Precautions for Firefighters

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

## Fire Fighting Measures

Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

## **Section 6 - ACCIDENTAL RELEASE MEASURES**

# Personal Precautions, Protective Equipment and Emergency Procedures

See Section 8 for Personal Protective Equipment recommendations.

# Methods and Materials for Containment and Cleaning Up

Stop leak if possible without personal risk. Small spills: Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal.

## Section 7 - HANDLING AND STORAGE

# **Precautions for Safe Handling**

Wash thoroughly after handling.

# Conditions for Safe Storage, Including any Incompatibilities

None needed according to classification criteria

Store in accordance with all current regulations and standards. Keep separated from incompatible substances.

# **Incompatible Materials**

oxidizing materials

# Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

## **Component Exposure Limits**

ACGIH, NIOSH, EU, OSHA (US) and Mexico have not developed exposure limits for any of this product's components

# Biological limit value

There are no biological limit values for any of this product's components.

## **Engineering Controls**

Based on available information, additional ventilation is not required. Ensure compliance with applicable exposure limits.

# Individual Protection Measures, such as Personal Protective Equipment

## Eye/face protection

Eye protection not required under normal conditions.

## **Skin Protection**

Protective clothing is not required under normal conditions.

# **Respiratory Protection**

No respirator is required under normal conditions of use.

## **Glove Recommendations**

Protective gloves are not required under normal conditions.

# **Section 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	purple solid	Physical State	solid	
Odor	mild odor	Color	purple	
Odor Threshold	Not available	рН	10.2 - 10.7	
Melting Point	Not available	Boiling Point	100 °C	
Freezing point	0 °C	Evaporation Rate	Not available	
Boiling Point Range	Not available	Flammability (solid, gas)	Non- Flammable	
Autoignition	Not available	Flash Point	None	
Lower Explosive Limit	Not available	Decomposition	Not available	
Upper Explosive Limit	Not available	Vapor Pressure	Not applicable	
Vapor Density (air=1)	Not applicable	Specific Gravity (water=1)	1.01 - 1.02	
Water Solubility	Miscible	Partition coefficient: n-octanol/water	Not available	
Viscosity	Not available	Solubility (Other)	Not available	
Density	8.4 - 8.5	Physical Form	solid	

# Section 10 - STABILITY AND REACTIVITY

## Reactivity

Not known to occur.

## **Chemical Stability**

Stable at normal temperatures and pressure.

# Possibility of Hazardous Reactions

Will not polymerize.

## Conditions to Avoid

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

# **Incompatible Materials**

oxidizing materials

# Hazardous decomposition products

oxides of carbon

# Section 11 - TOXICOLOGICAL INFORMATION

# Information on Likely Routes of Exposure

## Inhalation

No information on significant adverse effects.

#### Skin Contact

No information on significant adverse effects.

## **Eye Contact**

No information on significant adverse effects.

## Ingestion

No information on significant adverse effects.

# Acute and Chronic Toxicity

# Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and no selected endpoints have been identified

## **Immediate Effects**

No information on significant adverse effects.

# **Delayed Effects**

No information on significant adverse effects.

# Irritation/Corrosivity Data

No information on significant adverse effects.

# **Respiratory Sensitization**

No data available.

## **Dermal Sensitization**

No data available.

# **Component Carcinogenicity**

None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA

# Germ Cell Mutagenicity

No data available.

# Reproductive Toxicity

No data available.

# **Specific Target Organ Toxicity - Single Exposure**

No data available.

# Specific Target Organ Toxicity - Repeated Exposure

No data available.

# **Aspiration hazard**

No data available.

# Medical Conditions Aggravated by Exposure

None known.

# **Section 12 - ECOLOGICAL INFORMATION**

# Component Analysis - Aquatic Toxicity

No LOLI ecotoxicity data are available for this product's components

# **Section 13 - DISPOSAL CONSIDERATIONS**

# **Disposal Methods**

Dispose of contents/container in accordance with local/regional/national/international regulations.

# **Component Waste Numbers**

The U.S. EPA has not published waste numbers for this product's components

# **Section 14 - TRANSPORT INFORMATION**

## **US DOT Information:**

UN/NA #: Not regulated

## IATA Information:

UN#: Not regulated

## **TDG** Information:

**UN#:** Not regulated

# **Section 15 - REGULATORY INFORMATION**

# U.S. Federal Regulations

None of this products components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

SARA Section 311/312 (40 CFR 370 Subparts B and C)

Acute Health: No Chronic Health: No Fire: No Pressure: No Reactivity: No

# U.S. State Regulations

None of this product's components are listed on the state lists from CA, MA, MN, NJ or PA

# Not listed under California Proposition 65

# Canadian WHMIS Ingredient Disclosure List (IDL)

The components of this product are either not listed on the IDL or are present below the threshold limit listed on the IDL.

# **Section 16 - OTHER INFORMATION**

## NFPA Ratings

Health: 1 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

# **Summary of Changes**

Updated SDS: 12/02/2014

## Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS -Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC -European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC -International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow -Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of LIsts™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA -Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL -Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

## Other Information

#### Disclaimer:

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# Safety Data Sheet: Material Name: Elmer's GlueAll

**SDS ID: SDS-11**Issue Date: 2014-09-11
Revision: 1.0

#### **Other Sections**

01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16

## Section 1 - PRODUCT AND COMPANY IDENTIFICATION

#### **Material Name**

Elmer's Glue-All

#### **Trade Names**

Elmer's Glue-All

#### Synonyms

US: E135; E371; E372; E375; E379; E381; E382; E383; E384; E385; E386; E393; E395; E477; E619; E960; E981; E1235; E1321; E1322; E1323; E1324; E1325; E1326; E1327; E1329; E1330 E1366; E1462; E1501; E3810; E3815; E3820; E3830; E3850; E3860 Canada: 30325; 60345; 60352; 60355; 60359; 60375; 60382; 60383; 60385; 60387; 60395; 65120

#### **Product Use**

adhesives

#### Restrictions on Use

None known.

#### **Manufacturer Information**

Elmer's Products, Inc. 460 Polaris Parkway, Suite 500 Westerville, OH 43082 USA

Phone:1-888-435-6377 Fax:1-800-741-6046

Email:comments@elmers.com

Emergency Phone Number: Poison Control Center 1-888-516-2502

For additional product information, access our website at www.elmers.com. To place an order, call 1-800-848-9400.

## Section 2 - HAZARDS IDENTIFICATION

## Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

None needed according to classification criteria

#### **GHS Label Elements**

## Symbol(s)

None needed according to classification criteria

## Signal Word

None needed according to classification criteria

## Hazard Statement(s)

None needed according to classification criteria

## Precautionary Statement(s)

#### Prevention

None needed according to classification criteria

## Response

None needed according to classification criteria

#### Storage

None needed according to classification criteria

#### Disposal

None needed according to classification criteria

## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent	
NA	Non-hazardous substance	100	

## **Section 4 - FIRST AID MEASURES**

#### Inhalation

If adverse effects occur, remove to uncontaminated area. If discomfort persists, contact a physician.

## Skin

If on skin, wash immediately with plenty of soap and water. Get medical attention if irritation develops.

#### Eves

Remove contact lenses, if present and easy to do. IMMEDIATELY wash with large amounts of warm water, occasionally lifting upper and lower lids, until no evidence of chemical remains (at least 15-20 minutes). Get medical attention immediately.

## Ingestion

Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious or convulsive person. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

## Most Important Symptoms/Effects

#### Acute

No information on significant adverse effects.

## Delayed

No information on significant adverse effects.

## **Section 5 - FIRE FIGHTING MEASURES**

## **Extinguishing Media**

## Suitable Extinguishing Media

carbon dioxide, regular dry chemical, regular foam, water

## Unsuitable Extinguishing Media

None known.

## **Hazardous Combustion Products**

oxides of carbon

# Special Protective Equipment and Precautions for Firefighters

Slight fire hazard.

#### Fire Fighting Measures

Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

## Section 6 - ACCIDENTAL RELEASE MEASURES

# Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment. See Section 8 for personal protection information.

## Methods and Materials for Containment and Cleaning Up

Stop leak if possible without personal risk. Absorb with earth, sand or other non-combustible material and transfer to container. Collect spilled material in appropriate container for disposal.

## Section 7 - HANDLING AND STORAGE

## Precautions for Safe Handling

Use only with adequate ventilation. Wash thoroughly after handling.

## Conditions for Safe Storage, Including any Incompatibilities

None needed according to classification criteria

Store in accordance with all current regulations and standards. See original container for storage recommendations. Keep separated from incompatible substances.

## **Incompatible Materials**

oxidizing materials.

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Component Exposure Limits**

ACGIH, NIOSH, EU, OSHA (US) and Mexico have not developed exposure limits for any of this product's components

## Biological limit value

There are no biological limit values for any of this product's components.

#### **Engineering Controls**

Based on available information, additional ventilation is not required.

## Individual Protection Measures, such as Personal Protective Equipment

#### Eye/face protection

Eye protection not required under normal conditions.

#### Skin Protection

Protective clothing is not required under normal conditions.

## **Respiratory Protection**

No respirator is required under normal conditions of use.

#### Glove Recommendations

Protective gloves are not required under normal conditions.

## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	white liquid	Physical State	Liquid
Odor	mild odor	Color	white
Odor Threshold	Not available	рН	4.8 - 5.1
Melting Point	Not available	Boiling Point	100 °C
Freezing point	0 °C	Evaporation Rate	Not available
Boiling Point Range	Not available	Flammability (solid, gas)	Not flammable

Autoignition	Not available	Flash Point	Not available
Lower Explosive Limit	Not available	Decomposition	Not available
Upper Explosive Limit	Not available	Vapor Pressure	Not available
Vapor Density (air=1)	Not available	Specific Gravity (water=1)	1.04 - 1.07
Water Solubility	dispersible	Partition coefficient: n-octanol/water	Not available
Viscosity	Not available	Solubility (Other)	Not available
Density	8.7 - 8.9 g/cc	Physical Form	liquid

## **Section 10 - STABILITY AND REACTIVITY**

## Reactivity

No hazard expected.

## **Chemical Stability**

Stable at normal temperatures and pressure.

## Possibility of Hazardous Reactions

Will not polymerize.

#### **Conditions to Avoid**

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

## **Incompatible Materials**

strong oxidizing materials.

# Hazardous decomposition products

#### Combustion

oxides of carbon

## Section 11 - TOXICOLOGICAL INFORMATION

# Information on Likely Routes of Exposure

#### Inhalation

No information on significant adverse effects.

#### Skin Contact

No information on significant adverse effects.

## Eye Contact

No information on significant adverse effects.

#### Ingestion

No information on significant adverse effects.

## **Acute and Chronic Toxicity**

## Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and no selected endpoints have been identified

### **Immediate Effects**

No information on significant adverse effects.

## **Delayed Effects**

No information on significant adverse effects.

## Irritation/Corrosivity Data

No information on significant adverse effects.

## **Respiratory Sensitization**

No information available for the product.

## **Dermal Sensitization**

No information available for the product.

## Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA

## Germ Cell Mutagenicity

No information available for the product.

#### Reproductive Toxicity

No information available for the product.

# Specific Target Organ Toxicity - Single Exposure

No target organs identified.

## Specific Target Organ Toxicity - Repeated Exposure

No target organs identified.

## Aspiration hazard

No data available.

## Medical Conditions Aggravated by Exposure

No data available.

## Section 12 - ECOLOGICAL INFORMATION

# Component Analysis - Aquatic Toxicity

No LOLI ecotoxicity data are available for this product's components

## Persistence and Degradability

No information available for the product.

#### **Bioaccumulative Potential**

No information available for the product.

## **Biodegradation**

No information available for the product.

## Section 13 - DISPOSAL CONSIDERATIONS

## **Disposal Methods**

Dispose in accordance with all applicable regulations.

## **Component Waste Numbers**

The U.S. EPA has not published waste numbers for this product's components

## Section 14 - TRANSPORT INFORMATION

#### **US DOT Information**:

UN/NA #: Not regulated.

#### **TDG Information:**

UN#: Not regulated.

## Section 15 - REGULATORY INFORMATION

## U.S. Federal Regulations

None of this products components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

SARA Section 311/312 (40 CFR 370 Subparts B and C)

Acute Health: No Chronic Health: No Fire: No Pressure: No Reactivity: No

#### U.S. State Regulations

None of this product's components are listed on the state lists from CA, MA, MN, NJ or PA

## Not listed under California Proposition 65

#### Canada Regulations

This product has been classified in accordance with the criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

## Canadian WHMIS Ingredient Disclosure List (IDL)

The components of this product are either not listed on the IDL or are present below the threshold limit listed on the IDL.

#### WHMIS Classification

Not a Controlled Product under Canada's Workplace Hazardous Material Information System.

**Component Analysis - Inventory** 

Component	CAS#	US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	МХ
Non- hazardous substance	NA	No	No	No	No	No	No	No	No	No	No	No	No

#### U.S. Inventory (TSCA)

All the components of this substance are listed on or are exempt from the inventory.

#### Section 16 - OTHER INFORMATION

#### NFPA Ratings

Health: 1 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

## **Summary of Changes**

New SDS: 09/11/2014

#### Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP -Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG -Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU -European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV -Level Limit Value; LOLI - List Of LIsts™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

#### Other Information

Reasonable care has been taken in the preparation of this information; however, the manufacturer makes no warranty whatsoever including the warranty of merchantability, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental, consequential, or other such damages resulting from its use or misuse.

#### Disclaimer:

Supplier gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser shall determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.



SDS ID: SDS-23

## Material Name: Elmer's Multi-Purpose Spray Adhesive

#### Section 1 - PRODUCT AND COMPANY IDENTIFICATION

#### **Material Name**

Elmer's Multi-Purpose Spray Adhesive

#### **Synonyms**

E451, E452, 60451, E6451B, E6452B

#### **Chemical Family**

Adhesive

#### Details of the supplier of the safety data sheet

Newell Office Brands Product of Newell Office Brands, Inc. 6655 Peachtree Dunwoody Rd. NE Atlanta, GA 30328 www.elmers.com Phone: 1.888.435.6377

Emergency Phone #: 1.888.516.2502

#### Section 2 - HAZARDS IDENTIFICATION

#### Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

Flammable Aerosols - Category 1
Gases Under Pressure - Compressed gas
Aspiration Hazard - Category 1
Skin Corrosion/Irritation - Category 2
Serious Eye Damage/Eye Irritation - Category 2A
Specific Target Organ Toxicity - Single Exposure - Category 3
Hazardous to the Aquatic Environment - Acute - Category 2
Hazardous to the Aquatic Environment - Chronic - Category 2

## **GHS Label Elements**

#### Symbol(s)



## Signal Word

Danger

#### **Hazard Statement(s)**

Extremely flammable aerosol.

Contains gas under pressure; may explode if heated.

May be fatal if swallowed and enters airways.

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation. May cause drowsiness or dizziness.

Toxic to aquatic life with long lasting effects.

#### **Precautionary Statement(s)**

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#### Material Name: Elmer's Multi-Purpose Spray Adhesive

#### Prevention

Keep away from heat/sparks/open flame/hot surfaces - No smoking.

Pressurized container: Do not pierce or burn, even after use.

Do not spray on an open flame or other ignition sources.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wash thoroughly after handling.

Avoid release to the environment.

#### Response

IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists, get medical advice/attention.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash before reuse.

IF SWALLOWED: Immediately call a POISON CENTER/doctor.

Do NOT induce vomiting.

Call a POISON CENTER or doctor if you feel unwell.

Specific treatment (see label).

#### Storage

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

#### **Disposal**

Dispose of contents/container in accordance with local/regional/national/international regulations.

## Statement(s) of Unknown Aquatic Toxicity

0% of the mixture consists of ingredient(s) of unknown acute aquatic toxicity.

30% of the mixture consists of ingredient(s) of unknown chronic aquatic toxicity.

## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
107-83-5	Isohexane	10-20
67-64-1	Acetone	10-20
75-83-2	Neohexane	2.5-10
74-98-6	Propane	10-20
115-10-6	Dimethyl ether	2.5-10
79-29-8	2,3-Dimethylbutane	2.5-10
96-14-0	3-Methylpentane	2.5-10
106-97-8	Butane	2.5-10

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#### Material Name: Elmer's Multi-Purpose Spray Adhesive

#### Section 4 - FIRST AID MEASURES

#### **Description of Necessary Measures**

Call a POISON CENTER or doctor if you feel unwell.

#### Inhalation

Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

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#### Skin

Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Remove contaminated clothing and wash it before reuse.

#### Eyes

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops or persists.

#### Ingestion

Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. If vomiting occurs, keep head lower than hips to help prevent aspiration. Aspiration into the lungs may result in pulmonary edema and pneumonitis.

#### Most Important Symptoms/Effects

#### Acute

May cause respiratory irritation, eye irritation, skin irritation.

#### **Delayed**

no information on significant adverse effects.

## Note to Physicians

Mineral oil, vegetable oil, or petroleum jelly may help soften the bonding between skin surfaces.

#### Section 5 - FIRE FIGHTING MEASURES

#### **Extinguishing Media**

## Suitable Extinguishing Media

regular dry powder, alcohol resistant foam, water, carbon dioxide.

#### Unsuitable Extinguishing Media

None known.

#### Special Hazards Arising from the Chemical

Contains gas under pressure, may explode when heated.

#### Advice for firefighters

Vapors are heavier than air. Vapors or gases may ignite at distant ignition sources and flash back. Extremely flammable aerosol. Pressurized container: may burst if heated.

#### Fire Fighting Measures

Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible withdraw from area and let fire burn. In case of fire and/or explosion do not breathe fumes. Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

#### Section 6 - ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment and Emergency Procedures

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#### Material Name: Elmer's Multi-Purpose Spray Adhesive

Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas. Wear personal protective clothing and equipment, see Section 8. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

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#### Methods and Materials for Containment and Cleaning Up

Keep unnecessary people away, isolate hazard area and deny entry. Ventilate closed spaces before entering. Stay upwind and keep out of low areas. Eliminate all sources of ignition. Stop leak if possible without personal risk. Move containers away from spill to a safe area. Isolate area until gas has dispersed. Collect spillage. Prevent entry into waterways, sewers, basements, or confined areas.

#### **Environmental Precautions**

Avoid release to the environment. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

## Section 7 - HANDLING AND STORAGE

#### **Precautions for Safe Handling**

Pressurized container: Do not pierce or burn, even after use. Do not spray on naked flames or any incandescent material. Do not eat, drink or smoke when using this product. Do not puncture container. Ground any equipment used in handling. Keep away from heat, sparks and flame. Do not cut, puncture, or weld on or near this container. Do not reuse containers. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with eyes and skin. Avoid repeated or prolonged contact. Use only in well-ventilated areas. Wash hands thoroughly after handling. Do not empty into drains.

#### Conditions for Safe Storage, Including any Incompatibilities

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Keep away from incompatible materials. Keep away from heat, sparks and flame. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. This material can accumulate static charge by flow or agitation and can be ignited by static discharge. Keep out of reach of children.

#### **Incompatible Materials**

oxidizing agents

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Component Exposure Limits**

Isohexane	107-83-5
ACGIH:	500 ppm TWA
	1000 ppm STEL
NIOSH:	100 ppm TWA; 350 mg/m3 TWA (related to Isohexane)
	510 ppm Ceiling 15 min; 1800 mg/m3 Ceiling 15 min (related to Isohexane)
Mexico:	500 ppm TWA VLE-PPT (except n-Hexane ); 1760 mg/m3 TWA VLE-PPT (except n-Hexane ) (related to Hexane, branched and linear)
	1000 ppm STEL [PPT-CT] (except n-Hexane); 3500 mg/m3 STEL [PPT-CT] (except n-Hexane) (related to Hexane, branched and linear)

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Material Name: Elmer's Multi-Purpose Spray Adhesive

67-64-1 Acetone ACGIH: 250 ppm TWA 500 ppm STEL NIOSH: 250 ppm TWA; 590 mg/m3 TWA 2500 ppm IDLH (10% LEL) Europe: 500 ppm TWA; 1210 mg/m3 TWA OSHA (US): 1000 ppm TWA; 2400 mg/m3 TWA Mexico: 1000 ppm TWA VLE-PPT; 2400 mg/m3 TWA VLE-PPT 1260 ppm STEL [PPT-CT]; 3000 mg/m3 STEL [PPT-CT] 75-83-2 Neohexane ACGIH: 500 ppm TWA 1000 ppm STEL NIOSH: 100 ppm TWA; 350 mg/m3 TWA (related to Isohexane) 510 ppm Ceiling 15 min; 1800 mg/m3 Ceiling 15 min (related to Isohexane) 500 ppm TWA VLE-PPT (except n-Hexane); 1760 mg/m3 TWA VLE-PPT (except n-Mexico: Hexane) (related to Hexane, branched and linear) 1000 ppm STEL [PPT-CT] (except n-Hexane); 3500 mg/m3 STEL [PPT-CT] (except n-Hexane) (related to Hexane, branched and linear) 74-98-6 **Propane** ACGIH: (See Appendix F: Minimal Oxygen Content, explosion hazard) NIOSH: 1000 ppm TWA; 1800 mg/m3 TWA 2100 ppm IDLH (10% LEL) 1000 ppm TWA; 1800 mg/m3 TWA OSHA (US): Dimethyl ether 115-10-6 Europe: 1000 ppm TWA; 1920 mg/m3 TWA 2,3-79-29-8 Dimethylbutane ACGIH: 500 ppm TWA

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## Material Name: Elmer's Multi-Purpose Spray Adhesive

1000 ppm STEL
100 ppm TWA; 350 mg/m3 TWA (related to Isohexane)
510 ppm Ceiling 15 min; 1800 mg/m3 Ceiling 15 min (related to Isohexane)
500 ppm TWA VLE-PPT (except n-Hexane ); 1760 mg/m3 TWA VLE-PPT (except n-Hexane ) (related to Hexane, branched and linear)
1000 ppm STEL [PPT-CT] (except n-Hexane); 3500 mg/m3 STEL [PPT-CT] (except n-Hexane) (related to Hexane, branched and linear)
96-14-0
500 ppm TWA
1000 ppm STEL
100 ppm TWA; 350 mg/m3 TWA (related to Isohexane)
510 ppm Ceiling 15 min; 1800 mg/m3 Ceiling 15 min (related to Isohexane)
500 ppm TWA VLE-PPT (except n-Hexane ); 1760 mg/m3 TWA VLE-PPT (except n-Hexane ) (related to Hexane, branched and linear)
1000 ppm STEL [PPT-CT] (except n-Hexane); 3500 mg/m3 STEL [PPT-CT] (except n-Hexane) (related to Hexane, branched and linear)
106-97-8
1000 ppm STEL (explosion hazard )
800 ppm TWA ; 1900 mg/m3 TWA
1600 ppm IDLH (>10% LEL )
800 ppm TWA VLE-PPT ; 1900 mg/m3 TWA VLE-PPT

# ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)

Acetone (67-64-1)

25 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific )

## **Engineering Controls**

Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

#### Individual Protection Measures, such as Personal Protective Equipment

#### Eye/face protection

Wear safety glasses with side shields. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

#### **Skin Protection**

Wear appropriate chemical resistant clothing.

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#### Material Name: Elmer's Multi-Purpose Spray Adhesive

#### **Respiratory Protection**

A NIOSH approved air-purifying respirator with an appropriate cartridge or canister may be appropriate under certain circumstances where airborne concentrations are expected to exceed exposure limits.

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#### **Glove Recommendations**

Wear protective gloves.

## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Not available	Physical State	gas		
Odor	Not available	Color	Not available		
Odor Threshold	Not available	pH Not available			
Melting Point	Not available	Boiling Point	Not available		
<b>Boiling Point Range</b>	Not applicable	Freezing point Not available			
Evaporation Rate	Not available	Flammability (solid, gas)	Not available		
Autoignition Temperature	Not available	Flash Point	74.18 °F (23.44 °C estimated )		
Lower Explosive Limit	Not available	Decomposition temperature Not available			
Upper Explosive Limit	Not available	Vapor Pressure  373.4 psig @70 °F (estimated )			
Vapor Density (air=1)	Not available	Specific Gravity (water=1)	0.645 (estimated )		
Water Solubility	Not available	Partition coefficient: n- octanol/water	. Not available		
Viscosity	Not available	Kinematic viscosity Not available			
Solubility (Other)	Not available	Density	Not available		
Molecular Weight	Not available				

## Section 10 - STABILITY AND REACTIVITY

#### Reactivity

Under normal conditions, no hazard is expected.

## **Chemical Stability**

Stable under normal conditions of use.

## **Possibility of Hazardous Reactions**

Hazardous polymerization will not occur.

#### **Conditions to Avoid**

Avoid heat, flames, sparks and other sources of ignition. Avoid friction and static electricity.

**Incompatible Materials** 

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SDS ID: SDS-23

#### Material Name: Elmer's Multi-Purpose Spray Adhesive

oxidizing agents,

#### Hazardous decomposition products

oxides of carbon, hydrocarbons,

#### Section 11 - TOXICOLOGICAL INFORMATION

#### Information on Likely Routes of Exposure

#### Inhalation

May be fatal if swallowed and enters airways. Prolonged exposure can cause nausea, dizziness, headache, and narcotic effects. May cause respiratory irritation. May cause drowsiness or dizziness.

#### **Skin Contact**

Causes skin irritation.

#### **Eve Contact**

Causes serious eye irritation.

## Ingestion

May be fatal if swallowed and enters airways.

## **Acute and Chronic Toxicity**

## **Component Analysis - LD50/LC50**

The components of this material have been reviewed in various sources and the following selected endpoints are published:

#### Isohexane (107-83-5)

Oral LD50 Rat 15000 mg/kg (related to Hexane, branched and linear)

#### Acetone (67-64-1)

Oral LD50 Rat 5800 mg/kg

Dermal LD50 Rabbit >15700 mg/kg

Inhalation LC50 Rat 50100 mg/m3 8 h

## Neohexane (75-83-2)

Oral LD50 Rat 15000 mg/kg (related to Hexane, branched and linear)

#### Propane (74-98-6)

Inhalation LC50 Rat 658 mg/L 4 h

## Dimethyl ether (115-10-6)

Inhalation LC50 Rat 164000 ppm 4 h

## 2,3-Dimethylbutane (79-29-8)

Oral LD50 Rat 15000 mg/kg (related to Hexane, branched and linear)

#### **3-Methylpentane (96-14-0)**

Oral LD50 Rat 15000 mg/kg (related to Hexane, branched and linear)

#### Butane (106-97-8)

Inhalation LC50 Rat 658 g/m3 4 h

#### **Product Toxicity Data**

#### **Acute Toxicity Estimate**

Dermal	> 2000 mg/kg
Oral	> 2000 mg/kg

#### **Immediate Effects**

Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness.

#### **Delayed Effects**



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#### Material Name: Elmer's Multi-Purpose Spray Adhesive

No target organs identified.

## Irritation/Corrosivity Data

May cause respiratory irritation, eye irritation, skin irritation.

#### **Respiratory Sensitization**

No information available for the product.

#### **Dermal Sensitization**

no effects expected.

**Component Carcinogenicity** 

Acetone	67-64-1
ACGIH:	A4 - Not Classifiable as a Human Carcinogen

#### **Germ Cell Mutagenicity**

No information available for the product.

#### **Tumorigenic Data**

No data available

#### Reproductive Toxicity

No information available for the product.

## **Specific Target Organ Toxicity - Single Exposure**

respiratory system.

#### Specific Target Organ Toxicity - Repeated Exposure

#### **Aspiration hazard**

Aspiration Hazard. May be fatal if swallowed and enters airways.

#### **Medical Conditions Aggravated by Exposure**

No data available.

#### Section 12 - ECOLOGICAL INFORMATION

#### **Component Analysis - Aquatic Toxicity**

Acetone	67-64-1
Fish:	LC50 96 h Oncorhynchus mykiss 4.74 - 6.33 mL/L; LC50 96 h Pimephales promelas 6210 - 8120 mg/L [static ]; LC50 96 h Lepomis macrochirus 8300 mg/L
Invertebrate:	EC50 48 h Daphnia magna 10294 - 17704 mg/L [Static ] EPA ; EC50 48 h Daphnia magna 12600 - 12700 mg/L IUCLID

## Section 13 - DISPOSAL CONSIDERATIONS

#### **Disposal Methods**

Dispose in accordance with all applicable regulations. Do not puncture container.

## **Component Waste Numbers**

The U.S. EPA has not published waste numbers for this product's components.

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SDS ID: SDS-23

## Material Name: Elmer's Multi-Purpose Spray Adhesive

#### Section 14 - TRANSPORT INFORMATION

#### **Component Marine Pollutants (IMDG)**

This material contains one or more of the following chemicals required by IMDG to be identified as marine pollutants

ponutants	
Neohexane	75-83-2
	IMDG regulated marine pollutant (UN1208) (related to Hexane, branched and linear)
2,3-Dimethylbutane	79-29-8
	IMDG regulated marine pollutant (UN1208) (related to Hexane, branched and linear)
3-Methylpentane	96-14-0
	IMDG regulated marine pollutant (UN1208) (related to Hexane, branched and linear)

**US DOT Information:** 

**Shipping Name: AEROSOLS** 

Hazard Class: 2.1 UN/NA #: UN1950 Required Label(s): 2.1 Marine pollutant

**Additional information:** This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently. (Special provisions: N82; Packaging exceptions: 306.)

## **IATA Information:**

Shipping Name: AEROSOLS, FLAMMABLE

Hazard Class: 2.1 UN#: UN1950 Required Label(s): 2.1 Marine pollutant

**Additional information:** Special precautions for user: Read safety instructions, SDS and emergency procedures before handling. Packaging Exceptions: LTD QTY (Passenger and cargo aircraft: Allowed with restrictions; Cargo aircraft only: Allowed with restrictions)

**IMDG Information:** 

**Shipping Name: AEROSOLS** 

Hazard Class: 2.1 UN#: UN1950 Required Label(s): 2.1 Marine pollutant

**Additional information:** Special precautions for user: Read safety instructions, SDS and emergency procedures before handling. Packaging Exceptions: LTD QTY (Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.)

#### **International Bulk Chemical Code**



SDS ID: SDS-23

#### Material Name: Elmer's Multi-Purpose Spray Adhesive

This material contains one or more of the following chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

dangerous enemicals in outs.									
Isohexane	107-83-5								
IBC Code:	Category Y (related to Hexane, branched and linear)								
Neohexane	75-83-2								
IBC Code:	Category Y (related to Hexane, branched and linear)								
2,3-Dimethylbutane	79-29-8								
IBC Code:	Category Y (related to Hexane, branched and linear)								
3-Methylpentane	96-14-0								
IBC Code:	Category Y (related to Hexane, branched and linear)								

## Section 15 - REGULATORY INFORMATION

#### **U.S. Federal Regulations**

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

Acetone	67-64-1
CERCLA:	5000 lb final RQ ; 2270 kg final RQ

## SARA Section 311/312 (40 CFR 370 Subparts B and C) 2016 reporting categories

Acute Health: Yes Chronic Health: Yes Fire: Yes Pressure: Yes Reactivity: No

## SARA Section 311/312 (40 CFR 370 Subparts B and C) 2017 reporting categories

Flammable; Gas Under Pressure; Skin Corrosion/Irritation; Serious Eye Damage/Eye Irritation; Specific Target Organ Toxicity; Aspiration Hazard

## **U.S. State Regulations**

The following components appear on one or more of the following state hazardous substances lists:

	11					
Component	CAS	CA	MA	MN	NJ	PA
Isohexane	107-83-5	Yes	Yes	Yes	Yes	Yes
Acetone	67-64-1	Yes	Yes	Yes	Yes	Yes
Neohexane	75-83-2	Yes	Yes	Yes	Yes	Yes
Propane	74-98-6	No	Yes	Yes	Yes	Yes
Dimethyl ether	115-10-6	No	Yes	Yes	Yes	Yes
2,3-Dimethylbutane	79-29-8	Yes	Yes	Yes	Yes	Yes
3-Methylpentane	96-14-0	Yes	Yes	Yes	No	Yes

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SDS ID: SDS-23

## Material Name: Elmer's Multi-Purpose Spray Adhesive

Butane	106-97-8	Yes	Yes	Yes	Yes	Yes
--------	----------	-----	-----	-----	-----	-----

## Not listed under California Proposition 65

## **Canada Regulations**

## Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

Isohexane	107-83-5						
	1 %						
Acetone	67-64-1						
	1 %						
Neohexane	75-83-2						
	1 %						
2,3-Dimethylbutane	79-29-8						
	1 %						
3-Methylpentane	96-14-0						
	1 % (related to Hexane, branched and linear)						
Butane	106-97-8						
	1 %						

# **Component Analysis - Inventory**

Isohexane (107-83-5)

US	CA	EU	AU	РН	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL					Yes	Yes	No	No	Yes	Yes	Yes	Yes

## Acetone (67-64-1)

US	CA	EU	AU	РН	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes

Neohexane (75-83-2)

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Material Name: Elmer's Multi-Purpose Spray	v Adhesive
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SDS		

US	CA	EU	AU	РН	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes

## Propane (74-98-6)

US	CA	EU	AU	РН	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes

## Dimethyl ether (115-10-6)

US	CA	EU	AU	РН	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes

## **2,3-Dimethylbutane** (79-29-8)

US	CA	EU	AU	РН	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes

## 3-Methylpentane (96-14-0)

US	CA	EU	AU	РН	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes

## Butane (106-97-8)

US	CA	EU	AU	РН	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes

## Section 16 - OTHER INFORMATION

## **HMIS Rating**

Health: 2 Fire: 4 Reactivity: 1

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard



SDS ID: SDS-23

Material Name: Elmer's Multi-Purpose Spray Adhesive

Summary of Changes Updated SDS: 3/22/2020

#### Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU -Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA -California/Massachusetts/Minnesota/New Jersey/Pennsylvania\*; CAS - Chemical Abstracts Service; CFR - Code of Federal Regulations (US); CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG -Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EC - European Commission; EEC - European Economic Community; EIN -European Inventory of (Existing Commercial Chemical Substances); EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA -Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL -Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL), KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of LIsts<sup>TM</sup> -ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL -Maximum Exposure Limits; MX - Mexico; NDSL - Non-Domestic Substance List (Canada); NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL- Permissible Exposure Limit; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TCCA - Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TLV - Threshold Limit Value; TSCA -Toxic Substances Control Act; TW - Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States; VLE - Exposure Limit Value (Mexico); WHMIS -Workplace Hazardous Materials Information System (Canada).

#### **Other Information**

#### Disclaimer:

Supplier gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser shall determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.

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Safety Data Sheet:
Material Name: Elmer's NoWrinkle Rubber Cement
SDS ID: SDS-34

Issue Date: 2015-06-12 Revision: 1.2

#### **Other Sections**

01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16

## Section 1 - PRODUCT AND COMPANY IDENTIFICATION

#### Material Name

Elmer's No-Wrinkle Rubber Cement

### **Synonyms**

E141; E904; 231, 232, 233, 234, 61518; E63231T; E425; E1539, 60818

#### **Chemical Family**

Adhesive

#### **Product Use**

Adhesive

# Details of the supplier of the safety data sheet

Elmer's Products, Inc 460 Polaris Parkway, Suite 500 Westerville, OH 43082 USA

Phone:1-888-435-6377 Fax:1-800-741-6046

Email:comments@elmers.com

Emergency Phone Number: Poison Control Center 1-888-516-2502

For additional product information, access our website at www.elmers.com. To place an order, call 1-800-848-9400.

## Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

Flammable Liquids - Category 2
Aspiration Hazard - Category 1
Skin Corrosion/Irritation - Category 2
Serious Eye Damage/Eye Irritation - Category 2A
Specific Target Organ Toxicity - Single Exposure - Category 3
Specific Target Organ Toxicity - Repeated Exposure - Category 2
Hazardous to the Aquatic Environment - Acute - Category 1
Hazardous to the Aquatic Environment - Chronic - Category 1

#### **GHS Label Elements**

## Symbol(s)



## Signal Word

Danger

## Hazard Statement(s)

Highly flammable liquid and vapor
May be fatal if swallowed and enters airways
Causes skin irritation
Causes serious eye irritation
May cause respiratory irritation. May cause drowsiness or dizziness
May cause damage to organs through prolonged or repeated exposure
Very toxic to aquatic life with long lasting effects

# **Precautionary Statement(s)**

## **Prevention**

Keep container tightly closed
Keep away from heat/sparks/open flame/hot surfaces - No smoking
Ground/Bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting equipment
Take precautionary measures against static discharge
Use only non-sparking tools
Use only outdoors or in a well-ventilated area
Wear protective głoves/protective clothing/cye protection/face protection
Do not breathe dust/fume/gas/mist/vapours/spray
Wash thoroughly after handling
Avoid release to the environment

## Response

In case of fire: Use appropriate media to extinguish

Collect spillage

IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor if you feel unwell

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with

water/shower

If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse

IF SWALLOWED: Immediately call a POISON CENTER/doctor

Do NOT induce vomiting Specific treatment (see label)

## Storage

Store in a well-ventilated place. Keep container tightly closed Keep cool Store locked up

## Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations

## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent		
142-82-5	n-Heptane	> 85		

## **Section 4 - FIRST AID MEASURES**

#### Inhalation

Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

## Skin

Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

## Eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

## Ingestion

Immediately call a POISON CENTER or doctor/physician. DO NOT induce vomiting. Aspiration hazard. If vomiting occurs, keep head lower than hips to help prevent aspiration. Aspiration into the lungs may result in pulmonary edema and pneumonitis.

## Most Important Symptoms/Effects

#### Acute

May be fatal if swallowed and enters airways. May cause respiratory irritation, skin irritation, eye irritation.

#### Delayed

May cause damage to organs through prolonged or repeated exposure.

## **Section 5 - FIRE FIGHTING MEASURES**

## **Extinguishing Media**

## Suitable Extinguishing Media

Dry chemical, foam or carbon dioxide, water.

## Unsuitable Extinguishing Media

None known.

# Special Hazards Arising from the Chemical

Highly flammable liquid and vapor. The vapor is heavier than air. Vapors or gases may ignite at distant ignition sources and flash back. Vapor/air mixtures are explosive.

# Advice for firefighters

Wear self-contained breathing apparatus with a full facepiece and protective clothing.

## Fire Fighting Measures

Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Do not scatter spilled material with high-pressure water streams. In case of fire and/or explosion do not breathe fumes. Stay upwind and keep out of low areas.

## Section 6 - ACCIDENTAL RELEASE MEASURES

## Personal Precautions, Protective Equipment and Emergency Procedures

Keep unnecessary people away, isolate hazard area and deny entry. Do not breath gas/vapor/spray. Avoid contact with skin and eyes. Vapors may cause drowsiness and dizziness. Wear personal protective clothing and equipment, see Section 8.

## Methods and Materials for Containment and Cleaning Up

Eliminate all ignition sources if safe to do so. Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas. Ventilate closed spaces before entering. Stop leak if possible without personal risk. Reduce vapors with water spray. Ground any equipment used in handling. Do not touch or walk through spilled material. Absorb with earth, sand or other non-combustible material and transfer to container. Use only non-sparking tools. Large spills: Dike for later disposal.

#### **Environmental Precautions**

Prevent entry into waterways, sewers, basements, or confined areas. Avoid release to the environment. Collect spillage.

## Section 7 - HANDLING AND STORAGE

## **Precautions for Safe Handling**

Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray. Use only with adequate ventilation. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid heat, flames, sparks and other sources of ignition. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary measures against static discharge. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

# Conditions for Safe Storage, Including any Incompatibilities

Store in a well-ventilated place. Keep container tightly closed Keep cool Store locked up

## **Incompatible Materials**

acids, bases, amines, oxidizing materials.

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

# **Component Exposure Limits**

n-Heptane	142-82-5			
ACGIH:	400 ppm TWA			
	500 ppm STEL			
NIOSH:	85 ppm TWA; 350 mg/m3 TWA			
-	440 ppm Ceiling 15 min; 1800 mg/m3 Ceiling 15 min			
	750 ppm IDLH			
Europe:	500 ppm TWA; 2085 mg/m3 TWA			

OSHA (US):	500 ppm TWA; 2000 mg/m3 TWA
Mexico;	400 ppm TWA LMPE-PPT; 1600 mg/m3 TWA LMPE-PPT
	500 ppm STEL [LMPE-CT]; 2000 mg/m3 STEL [LMPE-CT]
	Skin - potential for cutaneous absorption

# Biological limit value

There are no biological limit values for any of this product's components.

# **Section 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	opaque liquid	Physical State	liquid
Odor	mild odor,solvent odor	Color	Not available
Odor Threshold	Not available	рН	Not available
Melting Point	Not available	Boiling Point	90 °C
Freezing point	Not available	Evaporation Rate	<1 (ether =1)
<b>Boiling Point Range</b>	Not available	Flammability (solid, gas)	Not available
Autoignition	Not available	Flash Point	-4 °C TCC
Lower Explosive Limit	Not available	Decomposition	Not available
Upper Explosive Limit	Not available	Vapor Pressure	Not available
Vapor Density (air=1)	>1	Specific Gravity (water=1)	0.71
Water Solubility	almost insoluble	Partition coefficient: n-octanol/water	Not available
Viscosity	Not available	Solubility (Other)	Not available
Density	Not available	Volatility	90 %

# Section 10 - STABILITY AND REACTIVITY

# Reactivity

No hazard expected.

## **Chemical Stability**

Stable under normal conditions of use.

## Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

## **Conditions to Avoid**

Avoid heat, flames, sparks and other sources of ignition. Containers may rupture or explode if exposed to heat.

## **Incompatible Materials**

acids. bases, amines, oxidizing materials.

## Hazardous decomposition products

oxides of carbon.

## Section 11 - TOXICOLOGICAL INFORMATION

# Information on Likely Routes of Exposure

#### Inhalation

May cause respiratory irritation.

## Skin Contact

Causes skin irritation.

## **Eye Contact**

Causes serious eye irritation.

#### Ingestion

Aspiration hazard. May be fatal if swallowed.

## **Acute and Chronic Toxicity**

## Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

n-Heptane (142-82-5)

Oral LD50 Mouse 5000 mg/kg

Dermal LD50 Rabbit 3000 mg/kg

Inhalation LC50 Rat 103 g/m3 4 h

# **Immediate Effects**

May cause respiratory irritation, skin irritation, eye irritation. May be fatal if swallowed.

# **Delayed Effects**

May cause damage to organs through prolonged or repeated exposure.

# Irritation/Corrosivity Data

Causes skin irritation. May cause eye irritation. May cause respiratory irritation.

# **Respiratory Sensitization**

No information available for the product.

### **Dermal Sensitization**

No information available for the product.

# **Component Carcinogenicity**

None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA

# Germ Cell Mutagenicity

No information available for the product.

# **Tumorigenic Data**

No data available

# Reproductive Toxicity

No information available for the product.

# **Specific Target Organ Toxicity - Single Exposure**

Respiratory system

# Specific Target Organ Toxicity - Repeated Exposure

May cause damage to organs through prolonged or repeated exposure.

# Aspiration hazard

May be fatal if swallowed.

# Medical Conditions Aggravated by Exposure

No data available.

# **Section 12 - ECOLOGICAL INFORMATION**

# Component Analysis - Aquatic Toxicity

n-Heptane	142-82-5
Fish:	LC50 96 h Cichlid fish 375 mg/L

# **Section 13 - DISPOSAL CONSIDERATIONS**

# **Disposal Methods**

Dispose in accordance with all applicable regulations.

# **Component Waste Numbers**

n-Heptane	142-82-5
RCRA:	waste number D001
	waste number D001
	D001

# Section 14 - TRANSPORT INFORMATION

# **Component Marine Pollutants**

This material contains one or more of the following chemicals required by US DOT to be identified as marine pollutants

Component	CAS#	Minimum Concentration
n-Heptane	142-82-5	DOT regulated (related to Heptane isomers)

**US DOT Information**:

**Shipping Name:**ADHESIVES

Hazard Class: 3 UN/NA #: UN1133 Packing Group: II Required Label(s): 3

IATA Information:

**Shipping Name:**ADHESIVES

Hazard Class: 3 UN#: UN1133 Packing Group: I Required Label(s): 3

IMDG Information:

**Shipping Name:**ADHESIVES

Hazard Class: 3 UN#: UN1133 Packing Group: II

#### **TDG** Information:

**Shipping Name:**ADHESIVES

Hazard Class: 3 UN#: UN1133 Packing Group: I

# **Section 15 - REGULATORY INFORMATION**

# U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

n-Heptane	142-82-5
TSCA 12b:	Section 4, 1 % de minimus concentration (related to Hydrocarbons, C>4)

SARA Section 311/312 (40 CFR 370 Subparts B and C)

Acute Health: Yes Chronic Health: Yes Fire: Yes Pressure: No Reactivity: No

# U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
n-Heptane	142-82-5	Yes	Yes	Yes	Yes	Yes

# Not listed under California Proposition 65

# Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

n-Heptane	142-82-5		
	1 %		

# **Component Analysis - Inventory**

n-Heptane (142-82-5)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes

# **Section 16 - OTHER INFORMATION**

# **HMIS Rating**

Health: 2 Fire: 3 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

# **Summary of Changes**

Updated SDS: 6/11/2015

# Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS -Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC -European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC -International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow -Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of LIsts™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA -Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL -Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

#### Other Information

### Disclaimer:

Supplier gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser shall determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.



#### Safety Data Sheet: Material Name: Elmer's School Glue SDS ID: SDS-12

Issue Date: 2015-06-30 Revision: 1.3

Other Sections

01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16

#### Section 1 - PRODUCT AND COMPANY IDENTIFICATION

#### Material Name

Elmer's School Glue

#### Trade Names

Elmer's School Glue

#### Synonyms

US: E134; E208; E301; E304; E308; E330; E340; E1304; E1500; E4047; E513; E6134; EC1202; Canada: 30331; 60300; 60307; 60308; 60310; 60331; 60341; 50260; 50261

#### **Product Use**

adhesives

#### Restrictions on Use

None known.

#### Details of the supplier of the safety data sheet

Elmer's Products, Inc 460 Polaris Parkway, Suite 500 Westerville, OH 43082 USA Phone:1-888-435-6377 Fax:1-800-741-6046

Email:comments@elmers.com

Emergency Phone Number: Poison Control Center 1-888-516-2502

For additional product information, access our website at www.elmers.com. To place an order, call 1-800-848-9400.

### Section 2 - HAZARDS IDENTIFICATION

#### Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

None needed according to classification criteria

#### **GHS Label Elements**

#### Symbol(s)

None needed according to classification criteria

#### Signal Word

None needed according to classification criteria

#### Hazard Statement(s)

None needed according to classification criteria

#### Precautionary Statement(s)

#### Prevention

None needed according to classification criteria

#### Response

None needed according to classification criteria

#### Storage

None needed according to classification criteria

#### Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations

#### Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
NA	Non-hazardous substance	100

#### Section 4 - FIRST AID MEASURES

#### (nhalation

If adverse effects occur, remove to uncontaminated area. If discomfort persists, contact a physician.

#### Skin

If on skin, wash immediately with plenty of soap and water. Get medical attention if irritation develops.

#### Eves

Remove contact lenses, if present and easy to do. IMMEDIATELY wash with large amounts of warm water, occasionally lifting upper and lower lids, until no evidence of chemical remains (at least 15-20 minutes). Get medical attention immediately.

#### Ingestion

Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious or convulsive person. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

#### Most Important Symptoms/Effects

#### Acute

No information on significant adverse effects.

#### Delayed

No information on significant adverse effects.

#### Section 5 - FIRE FIGHTING MEASURES

#### Extinguishing Media

#### Suitable Extinguishing Media

carbon dioxide, regular dry chemical, regular foam, water

#### Unsuitable Extinguishing Media

None known.

#### **Hazardous Combustion Products**

oxides of carbon

# Advice for firefighters

Slight fire hazard.

#### Fire Fighting Measures

Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

#### Section 6 - ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment. See Section 8 for personal protection information.

#### Methods and Materials for Containment and Cleaning Up

Stop leak if possible without personal risk. Absorb with earth, sand or other non-combustible material and transfer to container. Collect spilled material in appropriate container for disposal.

#### Section 7 - HANDLING AND STORAGE

#### Precautions for Safe Handling

Use only with adequate ventilation. Wash thoroughly after handling.

#### Conditions for Safe Storage, Including any Incompatibilities

None needed according to classification criteria

Store in accordance with all current regulations and standards. See original container for storage recommendations. Keep separated from incompatible substances.

### Incompatible Materials

oxidizing materials.

#### Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Component Exposure Limits

ACGIH, NIOSH, EU, OSHA (US) and Mexico have not developed exposure limits for any of this product's components

#### Biological limit value

There are no biological limit values for any of this product's components.

#### **Engineering Controls**

Based on available information, additional ventilation is not required.

#### Individual Protection Measures, such as Personal Protective Equipment

#### Eye/face protection

Eye protection not required under normal conditions.

#### Skin Protection

Protective clothing is not required under normal conditions.

#### Respiratory Protection

No respirator is required under normal conditions of use.

#### Glove Recommendations

Protective gloves are not required under normal conditions.

#### Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	white liquid	Physical State	Liquid
Odor	mild odor	Color	white
Odor Threshold	Not available	рН	4.5 - 5.5
Melting Point	Not available	Boiling Point	100 °C
Freezing point	0 ℃	Evaporation Rate	Not available
Boiling Point Range	Not available	Flammability (solid, gas)	Not flammable
Autoignition	Not available	Flash Point	Not available
Lower Explosive Limit	Not available	Decomposition	Not available
Upper Explosive Limit	Not available	Vapor Pressure	Not available
Vapor Density (air=1)	Not available	Specific Gravity (water=1)	1.03 +/- 0.01
Water Solubility	miscible	Partition coefficient: n-octanol/water	Not available
Viscosity	Not available	Solubility (Other)	Not available
Density	8.6 +/- 0.1	Physical Form	líquid

#### Section 10 - STABILITY AND REACTIVITY

#### Reactivity

No hazard expected.

#### **Chemical Stability**

Stable at normal temperatures and pressure.

#### Possibility of Hazardous Reactions

Will not polymerize.

#### Conditions to Avoid

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

#### Incompatible Materials

strong oxidizing materials.

# Hazardous decomposition products

#### Combustion

oxides of carbon

#### Information on Likely Routes of Exposure

#### Inhalation

No information on significant adverse effects.

#### Skin Contact

No information on significant adverse effects.

#### Eye Contact

No information on significant adverse effects.

#### Ingestion

No information on significant adverse effects.

#### Acute and Chronic Toxicity

#### Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and no selected endpoints have been identified

#### **Immediate Effects**

No information on significant adverse effects.

#### Delayed Effects

No information on significant adverse effects.

# Irritation/Corrosivity Data

No information on significant adverse effects.

#### Respiratory Sensitization

No information available for the product.

#### **Dermal Sensitization**

No information available for the product,

#### Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA

#### Germ Cell Mutagenicity

No information available for the product.

### Tumorigenic Data

No data available

#### Reproductive Toxicity

No information available for the product.

#### Specific Target Organ Toxicity - Single Exposure

No target organs identified.

#### Specific Target Organ Toxicity - Repeated Exposure

No target organs identified.

#### Aspiration hazard

No data available.

#### Medical Conditions Aggravated by Exposure

No data available.

#### Section 12 - ECOLOGICAL INFORMATION

### Component Analysis - Aquatic Toxicity

No LOLI ecotoxicity data are available for this product's components

#### Persistence and Degradability

No information available for the product.

### **Bioaccumulative Potential**

No information available for the product.

#### Biodegradation

No information available for the product.

#### Disposal Methods

Dispose in accordance with all applicable regulations.

#### Component Waste Numbers

The U.S. EPA has not published waste numbers for this product's components

#### Section 14 - TRANSPORT INFORMATION

#### US DOT Information:

UN/NA #: Not regulated.

#### TDG Information:

UN#: Not regulated.

#### Section 15 - REGULATORY INFORMATION

#### U.S. Federal Regulations

None of this products components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

SARA Section 311/312 (40 CFR 370 Subparts B and C)

Acute Health: No Chronic Health: No Fire: No Pressure: No Reactivity: No

#### U.S. State Regulations

None of this product's components are listed on the state lists from CA, MA, MN, NJ or PA

#### Not listed under California Proposition 65

#### Canada Regulations

This product has been classified in accordance with the criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR

#### Canadian WHMIS Ingredient Disclosure List (IDL)

The components of this product are either not listed on the IDL or are present below the threshold limit listed on the IDL.

#### WHMIS Classification

Not a Controlled Product under Canada's Workplace Hazardous Material Information System.

#### Component Analysis - Inventory

#### U.S. Inventory (TSCA)

All the components of this substance are listed on or are exempt from the inventory

#### Section 16 - OTHER INFORMATION

#### NFPA Ratings

Health: 1 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

#### **Summary of Changes**

New SDS: 09/09/2014

#### Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of LIsts<sup>TM</sup> - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

#### Other Information

#### Disclaimer:

Supplier gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser shall determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.

Date: September 12, 2019

#### SAFETY DATA SHEET

### **SECTION 1 - IDENTIFICATION**

Product identifier used on the label: Enviro-Solutions 64H Neutral Disinfectant Cleaner

Other means of Identification: ES64H

Recommended use of the chemical and restrictions on use: For professional use only.

#### Manufacturer/Supplier:

Charlotte Products Ltd.

Address:

2060 Fisher Dr.

Peterborough, ON K9J 6X6

**Telephone:** 705-740-2880

Fax: 705-745-1239

24 Hr. Emergency Tel. #: Infotrac 1-800-535-5053 (North America), 011-1-352-323-3500 (International)

### SECTION 2 - HAZARDS IDENTIFICATION

#### Classification of the chemical:

Specific target organ toxicity (Single Exposure) 2

Acute Toxicity Oral 4

Skin Corrosion/Irritation 1

Eye Damage/Irritation 1

### Label elements:

Signal Word: Danger

#### Hazard statement(s)

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage H371 May cause damage to organs

### Precautionary statement(s)

P260	Do not breathe dust/fume/gas/mist/vapours/spray
P264	Wash exposed areas thoroughly after handling
P270	Do not eat, drink or smoke when using this product

P280 Wear protective gloves/protective clothing/eye protection/face protection

P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P303+361+353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.

Rinse skin with water/shower

P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable

for breathing

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses if present and easy to do - continue rinsing

P309+311 IF exposed or you feel unwell: Call a poison center or doctor/physician

P310	Immediately call a poison center or doctor/physician
P321	Specific treatment (see section 4 of SDS)
P363	Wash contaminated clothing before reuse
P405	Store locked up
P501	Dispose of contents/container in accordance with local regulation

# Hazard pictogram(s)



Other hazards not otherwise classified: None Known

**Unknown Acute Toxicity: 0.13%** 

# **SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name, Common Name & Synonyms:	CAS#	Concentration %
Octyl decyl dimethyl ammonium chloride	32426-11-2	1-3
Alkyl (C <sub>12-16</sub> ) dimethyl benzyl ammonium chloride	68424-85-1	1-3
Tetrasodium EDTA	64-02-8	0.1-1
Dioctyl dimethyl ammonium chloride	5538-94-3	0.1-1
Didecyl dimethyl ammonium chloride	7173-51-5	0.1-1
Ethanol	64-17-5	0.1-1

<sup>\*\*</sup> If the chemical name/CAS # is "proprietary" and/or the weight % is shown as a range, this information had been withheld as a trade secret.

# **SECTION 4 - FIRST-AID MEASURES**

#### Description of first aid measures:

If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

**If on skin (or hair):** Take off all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs get medical advice/attention.

**If inhaled:** Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor/physician.

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor/physician.

**Most Important symptoms and effects, both acute and delayed:** Causes severe skin burns and eye damage. Causes serious eye damage. May cause damage to organs

**Indication of any immediate medical attention and special treatment needed:** Treat symptomatically, probable mucosal damage may contraindicate the use of gastric lavage.

# **SECTION 5 - FIRE-FIGHTING MEASURES**

#### Extinguishing media:

**Suitable extinguishing media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: Not determined

Special hazards arising from the substance or mixture: None known

Flammability classification: Not flammable

Hazardous combustion products: Carbon oxides, oxides of phosphorus other unidentified organic compounds.

Special protective equipment and precautions for firefighters:

**Protective equipment for fire-fighters:** Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

**Special fire-fighting procedures:** Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from firefighting to enter drains or water courses. Dike for water control.

# **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures:** All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep people away from and upwind of spilt/leak. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

**Methods and material for containment and cleaning up:** Do not allow material to contaminate ground water system. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply. Ventilate the area. Prevent further leakage or spillage if safe to do so. Soak up with inert absorbent material. Do not use combustible absorbents, such as sawdust. Pick up and transfer to properly labeled containers. Contaminated absorbent material may pose the same hazards as the spilled product. Contact the proper local authorities.

**Special spill response procedures:** In case of a transportation accident, contact Infotrac 1-800-535-5053 (North America), 011-1-352-323-3500 (International). If a spill/release in the US in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).

# **SECTION 7 - HANDLING AND STORAGE**

**Precautions for safe handling:** Handle in accordance with good industrial hygiene and safety practice. Use protective equipment recommended in section 8. Avoid contact with skin, eyes or clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands, and any exposed skin thoroughly after handling.

**Conditions for safe storage:** Keep container tightly closed and store in a cool, dry and well-ventilated place. Store locked up. Keep out of reach of children.

Incompatible materials: Oxidizing agents. Do not mix with other chemicals or cleaners

# SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposu	re Limits:				
	ACGI	H TLV	OSHA PEL		
Chemical Name	CAS#	TWA	STEL	PEL	STEL
Octyl decyl dimethyl ammonium chloride	32426-11-2				
Alkyl (C <sub>12-16</sub> ) dimethyl benzyl ammonium chloride	68424-85-1				
Tetrasodium EDTA	64-02-8				
Dioctyl dimethyl ammonium chloride	5538-94-3				
Didecyl dimethyl ammonium chloride	7173-51-5				
Ethanol	64-17-5	1000 ppm	1000 ppm		

#### **Exposure controls:**

Ventilation and engineering measures: Use only in well-ventilated areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Skin protection: Wear appropriate chemical resistant gloves. The suitability for a specific workplace should be discussed with the producers of the protective regimes.

Eye face protection: Wear eye/face protection. Wear as appropriate tightly fitting safety goggles; Safety glasses with side-shields.

Other protective equipment: Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

General hygiene considerations: Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

### **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Clear green liquid

Odor: Fresh

Odor threshold: No applicable information available

pH: 6-7

pH 1:32 (dilution): 6.5-7.5

Melting/Freezing point: No applicable information available

Initial boiling point and boiling range: 100 °C

Flash point: None to boiling

Flashpoint (Method): No applicable information available

Evaporation rate (BuAe = 1): Similar to water

Flammability (solid, gas): Not flammable

Lower flammable limit (% by vol.): Not Flammable

Upper flammable limit (% by vol.): Not Flammable

Vapor pressure: No applicable information available

Vapor density: No applicable information available

Relative density: No applicable information available

Solubility in water: Soluble

Other solubility(ies): No applicable information available

Partition coefficient: No applicable information available

Auto ignition temperature: No applicable information available

**Decomposition temperature:** No applicable information available

Viscosity: Water thin.

Volatile organic Compounds (%VOC's): No applicable information available

Other physical/chemical comments: No applicable information available

### **SECTION 10 - STABILITY AND REACTIVITY**

Reactivity: Not normally reactive

Chemical stability: Stable

Possibility of hazardous reactions: No hazardous polymerization

**Conditions to avoid:** Keep out of reach of children. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials.

**Incompatible materials:** Fluorine, strong oxidizing or reducing agents, bases, metals, sulfur trioxide, phosphorus pentoxide

Hazardous decomposition products: None known. Refer to 'Hazardous Combustion Products' in Section 5

# SECTION 11 - TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure:

Routes of entry - inhalation: Avoid breathing vapors or mists

Routes of entry - skin & eye: Avoid contact with skin or eyes

Routes of entry - Ingestion: Do not taste or swallow

**Potential Health Effects:** 

Signs and symptoms of short term (acute) exposure:

Symptoms: Please see section 4 of this SDS sheet for symptoms.

**Potential Chronic Health Effects:** 

Mutagenicity: Not expected to be mutagenic in humans.

Carcinogenicity: No applicable information available

Reproductive effects: No applicable information available

Sensitization to material: No applicable information available

Specific target organ effects: No data available to indicate product or components will have specific target organ

effects.

Medical conditions aggravated by overexposure: Pre-existing skin, eye or respiratory conditions

Toxicological data:

See the following table for individual ingredient acute toxicity data.

		LD <sub>50</sub>	LD <sub>50</sub>	LC <sub>50</sub>
Chemical name	CAS#	(Oral, rat)	(Dermal. Rabbit)	(4hr, Inhal., rat)
Octyl decyl dimethyl ammonium chloride	32426-11-2	50-500 mg/kg	>2000 mg/kg	0.07 mg/L
Alkyl (C <sub>12-16</sub> ) dimethyl benzyl ammonium chloride	68424-85-1	426 mg/kg	>2000 mg/kg	>0.054 mg/L
Tetrasodium EDTA	64-02-8	10 g/kg		
Dioctyl dimethyl ammonium chloride	5538-94-3	1025 mg/kg	>2000 mg/kg	0.07 mg/L
Didecyl dimethyl ammonium chloride	7173-51-5	84 mg/kg	>2000 mg/kg	0.07 mg/L
Ethanol	64-17-5	7060 mg/kg		124.7 mg/L

<sup>\*</sup>All empty cells no applicable information available

Other important toxicological hazards: None reported.

# **SECTION 12 - ECOLOGICAL INFORMATION**

Ecotoxicity: No applicable information available.

Persistence and degradability: No applicable information available

Bioaccumulation potential: No applicable information available.

Mobility in soil: No applicable information available.

Other Adverse Environmental effects: No applicable information available.

### **SECTION 13 - DISPOSAL CONSIDERATIONS**

Do not contaminate water, food, or feed by storage or disposal

**Waste Disposal Method:** Observe all applicable Federal/Provincial/State regulations and Local/Municipal ordinances regarding disposal of pesticide wastes.

**Pesticide Storage:** Store in original container in areas inaccessible to children. Open dumping is prohibited. Do not reuse empty container

**Pesticide Disposal:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Container Disposal:** Pesticide product disposal requirements vary by package size and type. Pesticides include disinfectants and sanitizers. See product label for complete disposal instructions. Always dispose of according to all federal, state and local applicable regulations.

Rinsing Instructions: Triple rinse container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

#### SECTION 14 - TRANSPORTATION INFORMATION

**Special Shipping Information:** Keep from freezing. **T.D.G. Classification:** Not regulated under T.D.G. **D.O.T. Classification:** Not regulated under D.O.T.

# **SECTION 15 - REGULATORY INFORMATION**

TSCA Status: (Toxic Substance Control Act Section 8(b) Inventory)

All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

#### **SARA 313**

This product does not contain listed substances above the "de minimus" level

#### SARA 311/312 Hazard Categories

Acute Health Hazard: Yes Chronic Health Hazard: No

Fire Hazard: No

Sudden release of pressure hazard: No

Reactive Hazard: No

# California Proposition 65

This product is not subject to warning requirements under California Proposition 65.

#### California Cleaning Product Right to Know Act of 2017 (SB 258)

Chemical Name	CAS-No.	Concentration %	Function	List
Water	7732-18-5	50-100	Diluent	
Tetrasodium EDTA	64-02-8	0.1-1	Chelating agent	
Octyl decyl dimethyl	32426-11-2	1-3	Surfactant,	
ammonium chloride			biocide	
Alkyl (C <sub>12-16</sub> ) dimethyl benzyl	68424-85-1	1-3	Surfactant,	
ammonium chloride			biocide	
Dioctyl dimethyl ammonium	5538-94-3	0.1-1	Surfactant,	
chloride			biocide	
Didecyl dimethyl ammonium	7173-51-5	0.1-1	Surfactant,	
chloride			biocide	
Ethanol	64-17-5	0.1-1	Solvent	
Citric acid anhydrous	77-92-9	0.1-1	Chelating agent	
Undeceth-5	Not available	0.1-1	Surfactant	
Blue Dye	Not available	<0.1	Dye	
Green Dye	Not available	<0.1	Dye	
Fragrance	Not available	<0.1	Fragrance	
Formaldehyde	50-00-0	<0.003	contaminant	2,5,9,10,15,16,
1107				18,20,24,29,30

# EPA Pesticide Registration Number: 1839-169-68138

#### **EPA Statement:**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

#### **EPA Pesticide Label:**

Danger. Keep out of reach of children. Corrosive. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin or on clothing. May be harmful if absorbed through the skin. May be fatal if swallowed. Wear protective clothing and rubber gloves. Remove contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

### **SECTION 16 - OTHER INFORMATION**

Legend:

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstract Services

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980

CFR: Code of Federal Regulations CSA: Canadian Standards Association DOT: Department of Transportation

ECOTOX: U.S. EPA Ecotoxicology Database

EINECS: European Inventory of Existing Commercial chemical Substances

EPA: Environmental Protection Agency
HSDB: Hazardous Substances Data Bank
IARC: International Agency for Research on Cancer

IUCLID: International Uniform Chemical Information Database

LC: Lethal Concentration

LD: Lethal Dose

NIOSH: National Institute of Occupational Safety and Health

NTP: National Toxicology Program

OECD: Organization for Economic Co operation and Development

OSHA: Occupational Safety and Health Administration

PEL: Permissible exposure limit

RCRA: Resource Conservation and Recovery Act RTECS: Registry of Toxic Effects of Chemical Substances SARA: Superfund Amendments and Reauthorization Act SDS: Safety Data Sheet Material Safety Data Sheet

STEL: Short Term Exposure Limit

TOG: Canadian Transportation of Dangerous Goods Act & Regulations

**TLV:** Threshold Limit Values **TWA:** Time Weighted Average

WHMIS: Workplace Hazardous Materials Identification System

Prepared By: Charlotte Technical Services Group Tel: (705) 740 2880

### **DISCLAIMER**

Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of this supplier, it is assumed that users of this material have been fully trained accordingly to the mandatory requirements of GHS. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of, or reliance on, any information contained within this form.

### **END OF DOCUMENT**

SDS No.: EE0062

#### Chemical Product and Company Information

Fage E1 of E2.



CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory use only. Not for drug, food or household use.

Product ERIOCHROME BLACK T

Synonyms Mordant Black 11 / C.I. No. 14645

Section 2 Hezards identification

Signal word: None required Pictograms: No symbol required Target organs: None known

GHS Classification:

Aquatic acute toxicity (Category 2)

GHS Label information: Hazard statement:

H401: Toxic to aquatic life.

Precautionary statement:

P273: Avoid release to the environment.

P501: Dispose of contents/container to a licensed chemical disposal agency in

accordance with local/regional/national regulations.

Ca Prop 65 - This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Chemical Name	CAS#	%	EINECS	A. J. allen VIII v.
Eriochrome black T	1787-61-7	Approx. 85%	217-250-3	
Contains: Sodium sulfate	7757-82-6	12%	231-820-9	

INGESTION: MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration, If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: MAY CAUSE EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Suitable Extinguishing Media: Use any media suitable for extinguishing supporting fire.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Ed a felication concerns the sources

Containment and Cleanup: Recover for reuse if not contaminated. Remove all sources of ignition. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8	Exposure Controls / Personal	Protection	and the second second second second	
9 1X	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Limits:	Eriochrome black T	Not established	Not established	Not established

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

### Section 9 Physical & Chemical Properties

Appearance: Solid. Black crystalline powder.

Odor: Slightly aromatic odor.
Odor threshold: Data not available.

pH: Data not available.

Melting / Freezing point: Data not available

Section 10 Stability & Reactivity

Boiling point: Data not available Flash point: Data not available

Evaporation rate ( = 1): Data not available Flammability (solid/gas): Data not available. Explosion limits: Lower / Upper: Data not available

Vapor pressure (mm Hg): Data not available Vapor density (Air = 1): Data not available Relative density (Specific gravity): Data not available Solubility(ies): Moderate (80 g/L H<sub>2</sub>O @ 90°C)

Partition coefficient: Data not available
Auto-ignition temperature: Data not available
Decomposition temperature: Data not available

Viscosity: Data not available.

Molecular formula: C<sub>20</sub>H<sub>12</sub>N<sub>3</sub>NaO<sub>7</sub>S

Molecular weight: 461.38

Chemical stability: Stable Hazardous polymerization: Will not occur.

Conditions to avoid: Excessive temperatures and heat. Protect from light.

Incompatible materials: Strong oxidizers, reducing agents.

Hazardous decomposition products: Carbon oxides, nitrogen oxides, sulfur oxides.

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Acute toxicity: Oral-rat LD50: 17,590 mg/kg Skin corrosion/irritation: Data not available Serious eye damage/irritation: Data not available Respiratory or skin sensitization: Data not available

Germ cell mutagenicity: Data not available

Carcinogenity: Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Data not available Aspiration hazard: Data not available

Potential health effects:

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion: May be harmful if swallowed. Skin: May cause skin irritation.

Eyes: May cause eye irritation.

Signs and symptoms of exposure: To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available. Exercise appropriate procedures to minimize potential hazards.

Additional information: RTECS #: QK2197000

# Toxicity to fish: LC50 - Pimephales promelas (fathead minnow) - 6 mg/l - 96 h Toxicity to daphnia and other aquatic invertebrates: No data available

Toxicity to algae: No data available

Persistence and degradability: No data available
Mobility in soil: No data available

Bioaccumulative potential: No data available PBT and vPvB assessment: No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

#### A FROM ESSAY EXPLANATION OF THE SECTION OF THE SECT

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

UN/NA number: Not applicable Hazard class: Not applicable Exceptions: Not applicable

Shipping name: Not Regulated Packing group: Not applicable 2012 ERG Guide # Not applicable

Reportable Quantity: No

Marine pollutant: No

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A chemical is considered to be listed if the CAS number for the Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	WHMIS Classification
Eriochrome black T	Listed	Not listed	Not listed	Listed	Not listed	Uncontrolled product
				1		

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.

Revision Date: August 5, 2013 Supercedes: July 5, 2013

# FLINN SCIENTIFIC, INC. Safety Data Sheet (SDS)

SDS #: 320.00

Revision Date: March 13, 2014

# SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### Eriochrome Black T

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300 Signal Word N/A Pictograms

# **SECTION 2 — HAZARDS IDENTIFICATION**

This chemical is considered nonhazardous according to GHS classifications for the Hazard Communication Standard. Treat all laboratory chemicals with caution.

Although this material is considered to be nonhazardous, unpredictable reactions among chemicals are always possible. Prudent laboratory practices should be observed.

# SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell.

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

If on skin: Wash with plenty of water.

If swallowed: Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

# **SECTION 5 — FIRE FIGHTING MEASURES**

Nonflammable solid.

NFPA CODE

When heated to decomposition, may emit toxic fumes.

None established

In case of fire: Use a tri-class dry chemical fire extinguisher.

# SECTION 6 — ACCIDENTAL RELEASE MEASURES

Sweep up the spill, place in a sealed bag or container, and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

FLINN SCIENTIFIC, INC.

Safety Data Sheet

Eriochrome Black T

SDS #: 320.00

Revision Date: March 13, 2014

#### **SECTION 7 — HANDLING AND STORAGE**

Flinn Suggested Chemical Storage Pattern: Organic #9. Store with dyes, indicators and stains. Store in a cool, dry place.

# SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection. Wash hands thoroughly after handling. Will stain skin, clothing, and surfaces.

### SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Brownish-black powder or crystals. Odor of new rubber.

Soluble: Hot water. Moderately in alcohol

An azo dye used in an EDTA titration. Blue to red in the presence of metals. Used in water hardness testing.

Reddish-brown in solution.

### SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with strong oxidizers. Shelf life: Indefinite, if stored properly.

# SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Irritant. Chronic effects: N.A. Target organs: N.A. ORL-RAT LD<sub>50</sub>: 17590 mg/kg

IHL-RAT LC<sub>50</sub>: N.A. SKN-RBT LD<sub>50</sub>: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

### **SECTION 12 — ECOLOGICAL INFORMATION**

Data not yet available.

# SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #26a is one option.

### **SECTION 14 — TRANSPORT INFORMATION**

Shipping name: Not regulated. Hazard class: N/A. UN number: N/A.

N/A = Not applicable

# **SECTION 15 — REGULATORY INFORMATION**

TSCA-listed, EINECS-listed (217-250-3)

### **SECTION 16 — OTHER INFORMATION**

This Safety Data Sheet (SDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific, Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of Flinn Scientific, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals.

Revision Date: March 13, 2014

# Ethanol, Denatured, Absolute



# Section 1

# Product Description

Product Name: Ethanol, Denatured, Absolute Science education applications Recommended Use:

Ethyl Alcohol Synonyms:

Carolina Biological Supply Company Distributor: 2700 York Road, Burlington, NC 27215

1-800-227-1150

800-227-1150 (8am-5pm (ET) M-F) Chemical Information:

800-424-9300 (Transportation Spill Response 24 hours) Chemtrec:

# Section 2

# Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

# **DANGER**







Highly flammable liquid and vapor. Toxic in contact with skin. May cause damage to organs.

#### GHS Classification:

Flammable Liquid Category 2, Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 2, Acute Toxicity - Dermal Category 3

IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician. Other Safety Precautions:

90.5 % of the mixture consists of ingredient(s) of unknown toxicity **Acute Toxicity Oral Contains** 90.5 % of the mixture consists of ingredient(s) of unknown toxicity **Acute Toxicity Dermal Contains** 90.5 % of the mixture consists of ingredient(s) of unknown toxicity Acute Toxicity Inhalation Vapor

Contains

90.5 % of the mixture consists of ingredient(s) of unknown toxicity Acute Toxicity Inhalation Dust/Mist

Contains

#### Composition / Information on Ingredients Section 3

Chemical Name Ethanol 2-Propanol Methanol	<u>CAS #</u> . 64-17-5 67-63-0 67-56-1	<u>%</u> 90.5 5 4.5
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### Section 4

# First Aid Measures

**Emergency and First Aid Procedures** 

In case of accident by inhalation; remove casualty to fresh air and keep at rest. Inhalation:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Eves:

After contact with skin, wash immediately with plenty of water. Skin Contact:

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. Ingestion:

### Section 5

# Firefighting Procedures

**Extinguishing Media:** 

Use dry chemical, CO2 or appropriate foam.

Fire Fighting Methods and Protection:

Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Vapors may travel back to ignition source. Closed Containers exposed to heat may Fire and/or Explosion Hazards:

explode.

**Hazardous Combustion Products:** Carbon dioxide, Carbon monoxide

# Section 6

# Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS

Ventilate the contaminated area.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Shut off ignition sources, including electrical equipment and flames. Do not allow smoking in

the area.

# Section 7

# Handling and Storage

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Handling:

Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/.../

equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do no eat, drink or smoke when using this

product. Wear protective gloves/protective clothing/eye protection/face protection.

Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Keep container tightly Storage:

closed in a cool, well-ventilated place.

Red - Flammables. Store in approved flammable containers. Store away from oxidizing materials. Storage Code:

# Section 8

# Protection Information

	ACC	<u>SIH</u>	<u>OSHA PEL</u>		
Chemical Name	(TWA)	(STEL)	(TWA)	(STEL)	
Ethanol	N/A	1000 ppm STEL	1000 ppm TWA;	N/A	
			1900 mg/m3 TWA		
2-Propanol	200 ppm TWA	400 ppm STEL	400 ppm TWA; 980	N/A	
2,100010	• •		mg/m3 TWA		
Methanol	200 ppm TWA	250 ppm STEL	200 ppm TWA; 260	N/A	
11100.00.00	• •		mg/m3 TWA		

**Control Parameters** 

No exposure limits exist for the constituents of this product. General room ventilation **Engineering Measures:** 

might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE):

Lab coat, apron, eye wash, safety shower. No respiratory protection required under normal conditions of use.

Respiratory Protection: Respirator Type(s): Eve Protection:

NIOSH approved air purifying respirator with organic vapor cartridge and HEPA filter.

Wear chemical splash goggles when handling this product. Have an eye wash station

available.

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective Skin Protection:

equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

work.

Butyl rubber, Natural latex,, Neoprene, Nitrile Gloves:

# Section 9

# Physical Data

Formula: CH3CH2OH Molecular Weight: 46.07 Appearance: Colorless Liquid Odor: Strong Alcohol Odor Odor Threshold: No data available

pH: No data available Melting Point: -114 C Boiling Point: 79 C Flash Point: 13 C

Flammable Limits in Air: 3.3 - 19%

Vapor Pressure: 44 mmHg at 25 °C

Evaporation Rate (BuAc=1): No data available

Vapor Density (Air=1): 1.6 Specific Gravity: .790 at 20 °C Solubility in Water: Soluble Log Pow (calculated): -0.32 Autoignition Temperature: 363 C

Decomposition Temperature: No data available

Viscosity: No data available Percent Volatile by Volume: 100%

Section 10 Reactivity Data

Reactivity: Not generally reactive under normal conditions.

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Temperatures above flash point in combination with sparks, open flames, or other

sources of ignition.

Incompatible Materials: Organic Peroxides, Strong acids, Oxidizing materials

Hazardous Decomposition Products: Carbon dioxide, Carbon monoxide

Hazardous Polymerization: Will not occur

# Section 11 Toxicity Data

Routes of Entry
Symptoms (Acute): Inhalation and ingestion.
Central Nervous System Disorders

Delayed Effects: Liver disorders

**Acute Toxicity:** 

 Chemical Name
 CAS Number
 Oral LD50
 Dermal LD50
 Inhalation LC50

 2-Propanol
 67-63-0
 Oral LD50 Rat 5045 mg/kg
 Inhalation LC50 INHALATION LC50 Rat 16000

Oral LD50 Mouse

3600 mg/kg

 Methanol
 67-56-1
 Oral LD50 Mouse
 INHALATION

 7300 mg/kg
 LC50 Rat 64000

ppm

ppm

Carcinogenicity:

IARC NTP **OSHA CAS Number Chemical Name** Listed Listed Listed 64-17-5 Ethanol Not listed Not listed 67-63-0 Listed 2-Propanol Not listed Not listed Not listed 67-56-1 Methanol

**Chronic Effects:** 

Mutagenicity: No evidence of a mutagenic effect.

Teratogenicity: Evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect.

Reproductive: Evidence of negative reproductive effects.

Target Organ Effects:

Acute: Central Nervous System, Eyes

Chronic: Liver

# Section 12 Ecological Data

Overview: This material is not expected to be harmful to the ecology.

Mobility: This material is expected to have high mobility in soil. It absorbs weakly to most soil types.

Persistence: Biodegradation

Bioaccumulation: Bioconcentration is not expected to occur.

Degradability: Biodegrades quickly.

Other Adverse Effects: No data

Chemical Name CAS Number Eco Toxicity

Ethanol 64-17-5 96 HR LC50 PIMEPHALES PROMELAS > 100 MG/L [STATIC]

48 HR EC50 DAPHNIA MAGNA 2 MG/L [STATIC] 24 HR EC50 DAPHNIA MAGNA 10800 MG/L 48 HR LC50 DAPHNIA MAGNA 9268 - 14221 MG/L

96 HR LC50 LEPOMIS MACROCHIRUS > 1400000 µG/L 67-63-0 2-Propanol

96 HR LC50 PIMEPHALES PROMELAS 11130 MG/L [STATIC]

48 HR EC50 DAPHNIA MAGNA 13299 MG/L

72 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L 96 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L

96 HR LC50 PIMEPHALES PROMELAS > 100 MG/L [STATIC] 67-56-1 Methanol

#### Section 13 Disposal Information

Dispose in accordance with all applicable Federal, State and Local regulations. Always Disposal Methods:

contact a permitted waste disposer (TSD) to assure compliance.

If discarded, this product is considered a RCRA ignitable waste, D001. Waste Disposal Code(s):

# Section 14

# Transport Information

Air - IATA Proper Shipping Name: **Ground - DOT Proper Shipping Name:** 

UN1170 UN1170

**Ethanol Solutions Ethanol Solutions** 

Class. 3 Class, 3 P.G. II P.G. II

#### Regulatory Information Section 15

All components in this product are on the TSCA Inventory. TSCA Status:

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Ethanol	64-17-5	No	No	No	No	No
2-Propanol	67-63-0	Isopropyl alcohol	No	No	No	No
Methanol	67-56-1	Methanol	No	5000 lb final RQ; 2270 kg final RQ	No	No

final RQ

WARNING: This product contains a chemical known to the state of California California Prop 65: to cause cancer, birth defects or other reproductive harm.

#### Additional Information Section 16

Printed: 09-11-2014 Replaces: 09/03/2014 Revised: 09/03/2014

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

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ACGIH	American Conference of Governmental	NTP	National Toxicology Program
,100111	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
OLINOLIN	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
1977		IDLH	Immediately dangerous to life and health

# Ethanol, Denatured, 95%



# Section 1

# **Product Description**

Product Name: Ethanol, Denatured, 95% Recommended Use: Science education applications

Synonyms: Alcohol, Ethyl alcohol

Distributor: Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

# Section 2

# Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

# **DANGER**





Highly flammable liquid and vapor. May cause damage to organs.

#### GHS Classification:

Flammable Liquid Category 2, Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 2

Other Safety Precautions: IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

Acute Toxicity Oral Contains
Acute Toxicity Inhalation Vapor

85.975 % of the mixture consists of ingredient(s) of unknown toxicity
85.975 % of the mixture consists of ingredient(s) of unknown toxicity

Contains

Acute Toxicity Inhalation Dust/Mist 85.975 % of the mixture consists of ingredient(s) of unknown toxicity

Contains

# Section 3

# Composition / Information on Ingredients

Chemical Name CAS# %	
Ethanol 64-17-5 85.9	8
Water 7732-18-5 5	
2-Propanol 67-63-0 4.75	
Methanol 67-56-1 4.28	

# Section 4

# **First Aid Measures**

**Emergency and First Aid Procedures** 

In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin Contact: After contact with skin, wash immediately with plenty of water.

Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

### Section 5

# **Firefighting Procedures**

Extinguishing Media: Use dry chemical, CO2 or appropriate foam.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Vapors may travel back to ignition source. Closed Containers exposed to heat may Fire and/or Explosion Hazards:

explode.

Carbon dioxide, Carbon monoxide **Hazardous Combustion Products:** 

# Section 6

# Spill or Leak Procedures

Steps to Take in Case Material Is

Released or Spilled:

No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS

Ventilate the contaminated area.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

# Section 7

# Handling and Storage

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Handling:

Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/.../

equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do no eat, drink or smoke when using this

product. Wear protective gloves/protective clothing/eye protection/face protection.

Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Keep container tightly

closed in a cool, well-ventilated place.

Red - Flammables. Store in approved flammable containers. Store away from oxidizing materials. Storage Code:

# Section 8

Storage:

# Protection Information

	ACC	<u>OSHA PEL</u>		
Chemical Name	(TWA)	(STEL)	(TWA)	(STEL)
Ethanol	N/A	1000 ppm STEL	1000 ppm TWA;	N/A
			1900 mg/m3 TWA	
2-Propanol	200 ppm TWA	400 ppm STEL	400 ppm TWA; 980	N/A
	, .		mg/m3 TWA	
Methanol	200 ppm TWA	250 ppm STEL	200 ppm TWA; 260	N/A
	• •		mg/m3 TWA	

**Control Parameters** 

Local exhaust ventilation or other engineering controls are normally required when Engineering Measures:

handling or using this product to avoid overexposure.

Personal Protective Equipment (PPE):

Respiratory Protection:

Lab coat, apron, eye wash, safety shower.

No respiratory protection required under normal conditions of use. Provide general room

exhaust ventilation if symptoms of overexposure occur as explained Section 11. A

respirator is not normally required.

None required where adequate ventilation is provided. If airborne concentrations are Respirator Type(s):

above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection. Wear chemical splash goggles when handling this product. Have an eye wash station

available.

Wear protective gloves. Inspect gloves for chemical break-through and replace at regular Skin Protection:

intervals. Clean protective equipment regularly. Wash hands and other exposed areas

with mild soap and water before eating, drinking, and when leaving work

Nitrile

# Section 9

Gloves:

Eve Protection:

# Physical Data

Formula: CH3CH2OH

Molecular Weight: (Ethanol) 46.07 Appearance: Colorless Liquid Odor: Moderate Alcohol Odor Odor Threshold: No data available

pH: No data available Melting Point: -114 C Boiling Point: 79 C Flash Point: 17 C

Flammable Limits in Air: 3.3 - 19% (Ethanol)

Vapor Pressure: 57.3 hPa at 20°C Evaporation Rate (BuAc=1): 3.3 Vapor Density (Air=1): 1.6

Specific Gravity: (Ethanol) 0.789 at 20 °C

Solubility in Water: Soluble Log Pow (calculated): -0.32 Autoignition Temperature: 363 C

Decomposition Temperature: No data available

Viscosity: No data available Percent Volatile by Volume: 95%

Section 10 Reactivity Data

Reactivity: Not generally reactive under normal conditions.

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Temperatures above flash point in combination with sparks, open flames, or other

sources of ignition.

Incompatible Materials: Organic Peroxides, Strong acids, Oxidizing materials, Water-reactive materials

Hazardous Decomposition Products: Carbon dioxide Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry Inhalation and ingestion.

Symptoms (Acute): Respiratory Irritation, Dermititis, Central Nervous System Depression

Delayed Effects: Liver disorders

Acute Toxicity:
Chemical Name
CAS Number
Oral LD50
Oral LD50
Oral LD50 Rat
90000 mg/kg

2-Propanol 67-63-0 Oral LD50 Rat INHALATION 5045 mg/kg LC50 Rat 16000

Oral LD50 Mouse ppm 3600 mg/kg

Methanol 67-56-1 Oral LD50 Mouse INHALATION

7300 mg/kg LC50 Rat 64000

ppm

Carcinogenicity:

IARC NTP **OSHA CAS Number Chemical Name** Listed Listed 64-17-5 Listed Ethanol Not listed Not listed 67-63-0 Listed 2-Propanol Not listed Not listed 67-56-1 Not listed Methanol

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.

Teratogenicity: No evidence of a teratogenic effect (birth defect).

Sensitization:

Reproductive:

No evidence of a sensitization effect.

No evidence of negative reproductive effects.

Target Organ Effects:

Acute: Central Nervous System, Eyes

Chronic: Eyes

Section 12 Ecological Data

Overview: Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/or

wildlife.

Mobility: This material is expected to have moderate mobility in soil. It absorbs to most soil types.

Persistence: Biodegradation

Bioaccumulation: Bioconcentration is not expected to occur.

Degradability: Biodegrades quickly.

Other Adverse Effects: No data

Chemical Name CAS Number Eco Toxicity

 Ethanol
 64-17-5
 96 HR LC50 PIMEPHALES PROMELAS > 100 MG/L [STATIC]

 Water
 7732-18-5
 No data available

 2-Propanol
 67-63-0
 96 HR LC50 LEPOMIS MACROCHIRUS > 1400000 μG/L

 Methanol
 67-56-1
 96 HR LC50 PIMEPHALES PROMELAS 11130 MG/L [STATIC]

48 HR EC50 DAPHNIA MAGNA 2 MG/L [STATIC] 24 HR EC50 DAPHNIA MAGNA 10800 MG/L 48 HR LC50 DAPHNIA MAGNA 9268 - 14221 MG/L

48 HR EC50 DAPHNIA MAGNA 13299 MG/L 72 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L 96 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L

# Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): If discarded, this product is considered a RCRA ignitable waste, D001.

# Section 14

# **Transport Information**

Ground - DOT Proper Shipping Name: Air - IATA Proper Shipping Name:

UN1170 UN1170 Ethanol Solutions UN1170 Ethanol Solutions

Class 3
P.G. II
P.G. II

# Section 15 Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Ethanol	64-17-5	No	No	No	No	No
2-Propanol	67-63-0	Isopropyl alcohol	No	No	No	No
Methanol	67-56-1	No	No	No	No	No

California Prop 65: WARNING: This product contains a chemical known to the state of California

to cause cancer and birth defects or other reproductive harm.

# Section 16

# Additional Information

Revised: 09/03/2014 Replaces: 09/03/2014 Printed: 09-11-2014

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary	1
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ACG1H <sup>*</sup>	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health

# Ethanol, Denatured, 70%



# Section 1

# **Product Description**

Product Name: Recommended Use: Synonyms: Ethanol, Denatured, 70% Science education applications Ethyl Alcohol Solution, Alcohol Carolina Biological Supply Company

2700 York Road, Burlington, NC 27215 1-800-227-1150

Chemical Information:

800-227-1150 (8am-5pm (ET) M-F)

Chemtrec:

Distributor:

800-424-9300 (Transportation Spill Response 24 hours)

# Section 2

# **Hazard Identification**

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

# **DANGER**





Highly flammable liquid and vapor. May cause damage to organs. Toxic to aquatic life.

#### GHS Classification:

Flammable Liquid Category 2, Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 2, Hazardous to the aquatic environment - Acute Category 2

Other Safety Precautions:

IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

Acute Toxicity Oral Contains Acute Toxicity Dermal Contains Acute Toxicity Inhalation Vapor 63.35 % of the mixture consists of ingredient(s) of unknown toxicity 63.35 % of the mixture consists of ingredient(s) of unknown toxicity 63.35 % of the mixture consists of ingredient(s) of unknown toxicity

Contains

Acute Toxicity Inhalation Dust/Mist

Contains

63.35 % of the mixture consists of ingredient(s) of unknown toxicity

### Section 3

# Composition / Information on Ingredients

Chemical Name	<u>CAS_#_</u>	<u>%</u>
Ethanol	64-17-5	63.35
Water	7732-18-5	30
2-Propanol	67-63-0	3.5
Methanol	67-56-1	3.15

# Section 4

# **First Aid Measures**

**Emergency and First Aid Procedures** 

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Eyes: Skin Contact: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with

water/shower.

Ingestion:

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

### Section 5

# Firefighting Procedures

Extinguishing Media:

Use dry chemical, CO2 or appropriate foam.

Firefighters should wear full protective equipment and NIOSH approved self-contained Fire Fighting Methods and Protection:

breathing apparatus.

Vapors may travel back to ignition source. Closed Containers exposed to heat may Fire and/or Explosion Hazards:

explode.

**Hazardous Combustion Products:** Carbon dioxide, Carbon monoxide

# Section 6

# Spill or Leak Procedures

Steps to Take in Case Material Is

Released or Spilled:

No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS

Ventilate the contaminated area.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the

recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

### Section 7

# Handling and Storage

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Handling:

Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/.../

equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do no eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face

protection.

Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Keep container tightly Storage:

closed in a cool, well-ventilated place.

Red - Flammables. Store in approved flammable containers. Store away from oxidizing materials. Storage Code:

### Section 8

# Protection Information

	ACC	SIH.	OSHA PE	<u>L</u>
<u>Chemical Name</u> Ethanol	(TWA) N/A	(STEL) 1000 ppm STEL	( <b>TWA)</b> 1000 ppm TWA;	(STEL) N/A
2-Propanol	200 ppm TWA	400 ppm STEL	1900 mg/m3 TWA 400 ppm TWA; 980 mg/m3 TWA	N/A
Methanol	200 ppm ⊤WA	250 ppm STEL	200 ppm TWA; 260 mg/m3 TWA	N/A

**Control Parameters** 

Local exhaust ventilation or other engineering controls are normally required when **Engineering Measures:** 

handling or using this product to avoid overexposure. Lab coat, apron, eye wash, safety shower.

Personal Protective Equipment (PPE):

Respiratory Protection:

No respiratory protection required under normal conditions of use.

Wear chemical splash goggles when handling this product. Have an eye wash station **Eve Protection:** 

available.

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective Skin Protection:

equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

work.

Butyl rubber, Natural latex., Neoprene, Nitrile Gloves:

# Section 9

# Physical Data

Formula: See Section 3

Molecular Weight: No data available Appearance: Colorless Liquid Odor: Moderate Alcohol Odor Odor Threshold: No data available

pH: No data available Melting Point: -48 C -114 C Boiling Point: 79 C Flash Point: 21 C 13 C

Flammable Limits in Air: (Ethanol) 3.3 - 19%

Vapor Pressure: (Ethanol) 44 mmHg at 25 °C Evaporation Rate (BuAc=1): No data available

Vapor Density (Air=1): 1.6 (ethanol)

Specific Gravity: 0.86 Solubility in Water: Soluble Log Pow (calculated): -0.32 Autoignition Temperature: 363 C

Decomposition Temperature: No data available

Viscosity: No data available

Percent Volatile by Volume: No data available

Section 10 Reactivity Data

Reactivity: Not generally reactive under normal conditions.

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Temperatures above flash point in combination with sparks, open flames, or other

sources of ignition.

Incompatible Materials: Organic Peroxides, Strong acids, Oxidizing materials, Water-reactive materials

Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry Inhalation and ingestion.

Symptoms (Acute): Eye disorders, Respiratory Irritation, Liver disorders

Delayed Effects: No data available

Acute Toxicity:

2-Propanol 67-63-0 Oral LD50 Rat INHALA HON 5045 mg/kg LC50 Rat 16000

Oral LD50 Mouse ppm

3600 mg/kg
Methanol 67-56-1 Oral LD50 Mouse

7300 mg/kg LC50 Rat 64000

ppm

INHALATION

Carcinogenicity:

**OSHA IARC** NTP **Chemical Name** CAS Number Listed Listed Listed Ethanol 64-17-5 67-63-0 Listed Not listed Not listed 2-Propanol Not listed Not listed 67-56-1 Not listed Methanol

**Chronic Effects:** 

Mutagenicity: No evidence of a mutagenic effect.

Teratogenicity: No evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect.

Reproductive: No evidence of negative reproductive effects.

Target Organ Effects:

Acute: Central Nervous System

Chronic: Liver

Section 12 Ecological Data

Overview: This material is not expected to be harmful to the ecology.

Mobility: This material is expected to have very high mobility in soil. It does not absorb to most soil types.

Persistence: Biodegradation

Bioconcentration is not expected to occur.

Degradability: Biodegrades quickly.

Other Adverse Effects: No data

Chemical Name CAS Number Eco Toxicity

Ethanol 64-17-5 96 HR LC50 PIMEPHALES PROMELAS > 100 MG/L [STATIC]

48 HR EC50 DAPHNIA MAGNA 2 MG/L [STATIC] 24 HR EC50 DAPHNIA MAGNA 10800 MG/L 48 HR LC50 DAPHNIA MAGNA 9268 - 14221 MG/L

Water 7732-18-5 No data available

2-Propanol 67-63-0 96 HR LC50 LEPOMIS MACROCHIRUS > 1400000 μG/L

96 HR LC50 PIMEPHALES PROMELAS 11130 MG/L [STATIC]

48 HR EC50 DAPHNIA MAGNA 13299 MG/L

72 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L 96 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L

Methanol 67-56-1 96 HR LC50 PIMEPHALES PROMELAS > 100 MG/L [STATIC]

# Section 13

# **Disposal Information**

Disposal Methods:

Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): If discarded, this product is considered a RCRA ignitable waste, D001.

# **Section 14**

# **Transport Information**

Ground - DOT Proper Shipping Name:

Air - IATA Proper Shipping Name:

UN1170

UN1170

Ethanol solutions

Ethanol solutions

Class 3 P.G. II Class 3 P.G. II

# **Section 15**

# Regulatory Information

TSCA Status:

All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Ethanol	64-17-5	No	No	No	No	No
2-Propanol	67-63-0	Isopropyl alcohol	No	No	No	No
Methanoi	67-56-1	Methanol	No	5000 lb final RQ; 2270 kg final RQ	No	No

California Prop 65:

WARNING: This product contains a chemical known to the state of California to cause cancer, birth defects or other reproductive harm.

# Section 16

# Additional Information

Revised: 09/03/2014

Replaces: 09/03/2014

Printed: 09-11-2014

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

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Ξl	os:	sa	r٧

ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act

IDLH Immediately dangerous to life and health

**SDS No.: EE0068** 

#### SAFETY DATA SHEET

#### FLAMMABLE STORAGE CODE RED

Section 1

Chemical Product and Company Information

Page E1 of E2



5100 West Henrietta Rd PO Box 92912 Rochester, NY 14692-9012 Tel: (800) 962-2660

**CHEMTREC 24 Hour Emergency** Phone Number (800) 424-9300

For laboratory use only Not for drug, food or household use.

Product

**ETHYL ACETATE** 

Synonyms

Ethyl Acetic Ester

Section 2

**Hazards Identification** 

Signal word: DANGER Pictograms: GHS02 / GHS07

Target organs: Central nervous system, Liver, Kidneys.





GHS Classification:

Flammable liquid (Category 2) Eye irritation (Category 2B) STOT-SE (Category 3)

GHS Label information: Hazard statement:

H225; Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

Precautionary statement:

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P241: Use explosion-proof electrical/ventilating/lighting equipment.

P242: Use only non-sparking tools.

P243. Take precautionary measures against static discharge.

P264: Wash hands thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P303+P361+P353; IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water/shower.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for

breathing.

P312: Call a POISON CENTER or doctor if you feel unwell.

P337+P313: If eye irritation persists: Get medical attention.

P370+P378: In case of fire: Use dry chemical, alcohol foam, carbon dioxide or water spray to extinguish.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P235: Keep cool.

P405: Store locked up.

P501: Dispose of contents/container to a licensed chemical disposal agency in

accordance with local/regional/national regulations.

Ca Prop 65 - This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Section 3

Composition / Information on Ingredients

Chemical Name

CAS#

%

EINECS

Ethyl acetate

141-78-6

99%

205-500-4

Section 4

First Aid Measures

INGESTION: MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: CAUSES RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: CAUSES SKIN IRRITATION AND/OR DRYNESS. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5

Fire Fighting Measures

Suitable Extinguishing Media: Use any media suitable for extinguishing supporting fire.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Vapors formed from this product are heavier than air and may travel along the ground to a distant source of ignition and flash back instantly.

Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Remove all sources of ignition. Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Section 7 Handling & Storage Page E2 of E2

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, well-ventilated area away from incompatible substances. Keep away from ignition sources.

Section 8 Exposure Controls / Personal Protection

Exposure Limits: Chemical Name ACGIH (TLV) OSHA (PEL) NIOSH (REL)

Ethyl acetate TWA: 400 ppm / 1440 mg/m³ TWA: 400 ppm / 1440 mg/m³ TWA: 400 ppm / 1440 mg/m³ TWA: 400 ppm / 1440 mg/m³

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

Section 9 Physical & Chemical Properties

Appearance: Clear colorless liquid.

Odor: Fruity odor.

Odor threshold: Data not available. pH: 7.0

Melting / Freezing point: -83.6°C (-118°F) Boiling point: 77°C (170°F)

Flash point: -4.4°C (24.1°F) CC

Evaporation rate ( = 1): Data not available Flammability (solid/gas): Data not available. Explosion limits: Lower / Upper: 2.2% / 11.5% Vapor pressure (mm Hg): 76 @ 20°C

Vapor density (Air = 1): 3.04 Relative density (Specific gravity): 0.902 g/cm<sup>3</sup> Solubility(ies): Slightly in water.

Stability & Reactivity

Section 10 Stability & Reactivity

Chemical stability: Stable Hazardous polymerization: Will not occur. Conditions to avoid: Excessive temperatures, heat, sparks, open flame and other sources of ignition.

Incompatible materials: Strong oxidizers, inorganic acids and halogens.

Hazardous decomposition products: Oxides of carbon.

Section 11 Toxicological Information

Acute toxicity: Oral-rat LD50: 5620 mg/kg; Inhalation-rat LC50: 200 g/m3; Dermal-rabbit LD50: >20 ml/kg

Skin corrosion/irritation: Data not available Serious eye damage/irritation: Data not available Respiratory or skin sensitization: Data not available

Germ cell mutagenicity: Data not available

Carcinogenity: Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: Data not available

STOT-single exposure: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

STOT-repeated exposure: Data not available Aspiration hazard: Data not available

Potential health effects:

Inhalation: Inhalation may cause respiratory tract irritation.

Ingestion: Ingestion causes may cause nausea, central nervous system depression, weakness, drowsiness, loss of consciousness.

Skin: Contact with skin causes irritation defatting on prolonged contact. Eyes: Contact with eyes may cause irritation, redness, corneal injury.

Signs and symptoms of exposure: To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available. Exercise appropriate procedures to minimize potential hazards.

Additional information: RTECS #: AH5425000
Section 12 Ecological Information

Toxicity to fish: Pimephales promelas (fish, fresh water), LC50 = 230 mg/L/96 hours

Toxicity to daphnia and other aquatic invertebrates: Daphnia magna (Crustacea), EC50 = 717 mg/L/48 hours

Toxicity to algae: Scenedesmus subspicatus (Algae), EC50 = 3300 mg/L/48 hours

Persistence and degradability: No data available

Mobility in soil: No data available

Bioaccumulative potential: No data available

PBT and vPvB assessment: No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Section 13 Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

Section 14 Transport Information (US DOT / CANADA TDG)

UN/NA number: UN1173 Shipping name: Ethyl acetate

Hazard class: 3 Packing group: II Reportable Quantity: 5,000 lbs (2270 kg) Marine pollutant: No

Exceptions: Limited quantity equal to or less than 1 L 2012 ERG Guide # 129

Section 15 Regulatory Information

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

 Component
 TSCA
 CERLCA (RQ)
 RCRA code
 DSL
 NDSL
 WHMIS Classification

 Ethyl acetate
 Listed
 Not listed
 U112
 Listed
 Not listed
 B2

#### Section 16 Additional Information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.

Revision Date: May 23, 2013 Supercedes: February 26, 2011

Partition coefficient: Data not available

Molecular formula: CH2COOC2H5

Viscosity: 0.48 cSt

Molecular weight: 88.11

Auto-ignition temperature: 427°C (800°F)

Decomposition temperature: Data not available.

Page: 1/10

# **Safety Data Sheet**

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: December 07, 2018 Revision: December 07, 2018

# 1 Identification

Product identifier

· Trade name: Ethyl Acetate · Product code: EA2000-D

· CAS Number:

141-78-6

· Recommended use and restriction on use

· Recommended use: Laboratory chemicals

· Restrictions on use: No relevant information available.

Details of the supplier of the Safety Data Sheet

· Manufacturer/Supplier:

AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 Phone: (717)632-1291

Toll-Free: (866)632-1291 info@aquaphoenixsci.com

Distributor:

AquaPhoenix Scientific, Inc. 860 Gitts Run Road

Hanover, PA 17331 (717) 632-1291

· Emergency telephone number:

ChemTel Inc.

(800)255-3924 (North America)

+1 (813)248-0585 (International)

# 2 Hazard(s) identification

· Classification of the substance or mixture

Flam. Lig. 2 H225 Highly flammable liquid and vapor.

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- · Additional information: Repeated exposure may cause skin dryness or cracking.
- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms:





GHS02 GHS07

- · Signal word: Danger
- · Hazard statements:

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

(Cont'd. on page 2)

Page: 2/10

# Safety Data Sheet

# acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: December 07, 2018 Revision: December 07, 2018

Trade name: Ethyl Acetate

(Cont'd. of page 1)

#### · Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing mist, vapors, or spray.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P312 Call a poison center/doctor if you feel unwell.

P337+P313 If eye irritation persists: Get medical advice/attention.

P370+P378 In case of fire: Use for extinction: Alcohol resistant foam or water spray.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· Additional information: Repeated exposure may cause skin dryness or cracking.

Other hazards There are no other hazards not otherwise classified that have been identified.

# 3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description 141-78-6 Ethyl acetate

# 4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation continues, consult a doctor.

· After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

· Most important symptoms and effects, both acute and delayed:

Dizziness

(Cont'd. on page 3)

# Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: December 07, 2018 Revision: December 07, 2018

Trade name: Ethyl Acetate

(Cont'd. of page 2)

Coughing

Causes eye irritation.

Gastric or intestinal disorders when ingested.

Nausea in case of ingestion.

Disorientation

· Danger:

May cause drowsiness or dizziness.

Causes mild skin irritation.

Repeated exposure may cause skin dryness or cracking.

· Indication of any immediate medical attention and special treatment needed:

If necessary oxygen respiration treatment.

Medical supervision for at least 48 hours.

If medical advice is needed, have product container or label at hand.

# 5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

Alcohol resistant foam

Carbon dioxide

Gaseous extinguishing agents

Fire-extinguishing powder

Water fog / haze

- · For safety reasons unsuitable extinguishing agents: Water stream.
- · Special hazards arising from the substance or mixture

Highly flammable liquid and vapor.

Formation of toxic gases is possible during heating or in case of fire.

- Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

· Additional information:

Eliminate all ignition sources if safe to do so.

Use large quantities of foam as it is partially destroyed by the product.

Cool endangered receptacles with water in flooding quantities.

# 6 Accidental release measures

# · Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Keep away from ignition sources.

Protect from heat.

Remove ignition sources.

Wear protective equipment. Keep unprotected persons away.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

Environmental precautions

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

(Cont'd. on page 4)

# Safety Data Sheet

# acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: December 07, 2018 Revision: December 07, 2018

Trade name: Ethyl Acetate

(Cont'd. of page 3)

#### · Methods and material for containment and cleaning up

Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders). Send for recovery or disposal in suitable receptacles.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

# 7 Handling and storage

- · Handling
- · Precautions for safe handling:

Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

· Information about protection against explosions and fires:

Highly flammable liquid and vapor.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Flammable gas-air mixtures may be formed in empty containers/receptacles.

- · Conditions for safe storage, including any incompatibilities
- · Requirements to be met by storerooms and receptacles:

Store in a cool location.

Avoid storage near extreme heat, ignition sources or open flame.

· Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidizing agents.

- · Further information about storage conditions: Keep containers tightly sealed.
- · Specific end use(s) No relevant information available.

# 8 Exposure controls/personal protection

· Control parameters

L	· Components with limit values that require monitoring at the workplace:					
	141-78-6 Ethyl acetate					
ſ	PEL (USA) Long-term value: 1400 mg/m³, 400 ppm					
	REL (USA) Long-term value: 1400 mg/m³, 400 ppm					
	TLV (USA) Long-term value: 1440 mg/m³, 400 ppm					
	EL (Canada) Long-term value: 150 ppm					
	EV (Canada) Long-term value: 1,440 mg/m³, 400 ppm					
	LMPE (Mexico)	Long-term value: 400 ppm				

- · Exposure controls
- General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

(Cont'd. on page 5)

Page: 5/10

# **Safety Data Sheet**

# acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: December 07, 2018 Revision: December 07, 2018

Trade name: Ethyl Acetate

(Cont'd. of page 4)

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

- · Engineering controls: Provide adequate ventilation.
- · Breathing equipment: Suitable respiratory protective device recommended.
- · Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· Material of gloves

Butyl rubber, BR

Fluorocarbon rubber (Viton)

Natural rubber, NR

Nitrile rubber, NBR

Sensibilization by the components in the glove materials is possible.

· Not suitable are gloves made of the following materials:

**PVC** gloves

PVA gloves

· Eye protection:



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

- · Body protection: Protective work clothing
- · Limitation and supervision of exposure into the environment

No relevant information available.

# 9 Physical and chemical properties

· Information on basic physical a	· Information on basic physical and chemical properties						
· Appearance:	р орогио						
Form:	Liquid						
Color:	Colorless						
· Odor:	Fruit-like						
· Odor threshold:	Not determined.						
· pH-value:	Not determined.						
<ul> <li>Melting point/Melting range:</li> </ul>	-83.57 °C (-118.4 °F)						
<ul> <li>Boiling point/Boiling range:</li> </ul>	77-78 °C (170.6-172.4 °F)						
· Flash point:	-1 °C (30.2 °F)						
· Flammability (solid, gaseous):	Not applicable.						
· Auto-ignition temperature:	460 ℃ (860 °F)						
· Decomposition temperature:	Not determined.						
		(Cont'd. on page 6)					

Page: 6/10

# **Safety Data Sheet**

# acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: December 07, 2018 Revision: December 07, 2018

Trade name: Ethyl Acetate

	(Cont'd. of page		
· Danger of explosion:	Product is not explosive. However, formation of explosive air vapor mixtures are possible.		
· Explosion limits			
Lower:	2.1 Vol %		
Upper:	11.5 Vol %		
Oxidizing properties:	Not determined.		
· Vapor pressure at 20 °C (68 °F):	97 hPa (72.8 mm Hg)		
· Density at 20 °C (68 °F):	0.9 g/cm³ (7.51 lbs/gal)		
· Relative density:	Not determined.		
Vapor density: Not determined.			
· Evaporation rate:	Not determined.		
· Solubility in / Miscibility with			
Water at 20 °C (68 °F):	79 g/l		
· Partition coefficient (n-octanol/wate	er): Not determined.		
· Viscosity			
Dynamic at 20 °C (68 °F):	0.44 mPas		
Kinematic:	Not determined.		
· Other information	No relevant information available.		

# 10 Stability and reactivity

- · Reactivity: No relevant information available.
- · Chemical stability: Stable under normal temperatures and pressures.
- · Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

# Possibility of hazardous reactions

Reacts violently with oxidizing agents.

Used empty containers may contain product gases which form explosive mixtures with air.

Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized.

Highly flammable liquid and vapor.

Reacts with strong acids.

Toxic fumes may be released if heated above the decomposition point.

# · Conditions to avoid

Keep ignition sources away - Do not smoke.

Store away from oxidizing agents.

- · Incompatible materials No relevant information available.
- · Hazardous decomposition products

Under fire conditions only:

Carbon monoxide and carbon dioxide

# 11 Toxicological information

Information on toxicological effects

(Cont'd. on page 7)

Page: 7/10

# Safety Data Sheet

# acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: December 07, 2018 Revision: December 07, 2018

Trade name: Ethyl Acetate

(Cont'd. of page 6)

· Acute toxicity: Based on available data, the classification criteria are not met.

· LD/LC50 values that are relevant for classification:

# 141-78-6 Ethyl acetate

Oral LD50 5620 mg/kg (rabbit) Inhalative LC50/4h 1600 mg/l (rat)

- · Primary irritant effect:
- · On the skin: Based on available data, the classification criteria are not met.
- · On the eye: Causes serious eye irritation.
- · Sensitization: Based on available data, the classification criteria are not met.

# · IARC (International Agency for Research on Cancer):

Substance is not listed.

# · NTP (National Toxicology Program):

Substance is not listed.

# · OSHA-Ca (Occupational Safety & Health Administration):

Substance is not listed.

#### · Probable route(s) of exposure:

Ingestion.

Inhalation.

Eve contact.

Skin contact.

#### · Acute effects (acute toxicity, irritation and corrosivity):

Causes serious eve irritation.

Causes mild skin irritation.

Vapors have narcotic effect.

- · Repeated dose toxicity: Repeated exposure may cause skin dryness or cracking.
- · Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- · Carcinogenicity: Based on available data, the classification criteria are not met.
- · Reproductive toxicity: Based on available data, the classification criteria are not met.
- · STOT-single exposure: May cause drowsiness or dizziness.
- · STOT-repeated exposure: Based on available data, the classification criteria are not met.
- · Aspiration hazard: Based on available data, the classification criteria are not met.

# 12 Ecological information

- · Toxicity
- · Aquatic toxicity No relevant information available.
- · Persistence and degradability No relevant information available.
- · Bioaccumulative potential: No relevant information available.
- · Mobility in soil: No relevant information available.
- Additional ecological information
- · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

(Cont'd. on page 8)

Page: 8/10

# **Safety Data Sheet**

# acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: December 07, 2018 Revision: December 07, 2018

Trade name: Ethyl Acetate

(Cont'd. of page 7)

· Other adverse effects No relevant information available.

# 13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

- Uncleaned packagings
- · Recommendation: Disposal must be made according to official regulations.

Transport information		
· UN-Number · DOT, ADR/RID/ADN, IMDG, IATA	UN1173	
· UN proper shipping name · DOT, IMDG, IATA · ADR/RID/ADN	ETHYL ACETATE 1173 ETHYLACETAT	
Transport hazard class(es)		
DOT		
-20-04.2.20		
· Class	3	
· Label	3	
· ADR/RID/ADN		
Class	3 (F1)	
· Label ·	3	
· IMDG, IATA		
Class	3	
Label	3	
Packing group		

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# **Safety Data Sheet**

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: December 07, 2018 Revision: December 07, 2018

Trade name: Ethyl Acetate

		(Cont'd. of page 8)
· DOT, ADR/RID/ADN, IMDG, IATA	II	
· Environmental hazards	Not applicable.	
<ul> <li>Special precautions for user</li> <li>Danger code (Kemler):</li> <li>EMS Number:</li> </ul>	Warning: Flammable liquids 33 3-07	
<ul> <li>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</li> </ul>	of Not applicable.	
· Transport/Additional information:		
· DOT · Hazardous substance:	5000 lbs, 2270 kg	

# 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · United States (USA)
- ·SARA
- · Section 302 (extremely hazardous substances):

Substance is not listed.

· Section 355 (extremely hazardous substances):

Substance is not listed.

· Section 313 (Specific toxic chemical listings):

Substance is not listed.

· TSCA (Toxic Substances Control Act)

Substance is listed.

- · Proposition 65 (California)
- · Chemicals known to cause cancer:

Substance is not listed.

· Chemicals known to cause developmental toxicity for females:

Substance is not listed.

· Chemicals known to cause developmental toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

· EPA (Environmental Protection Agency):

Substance is not listed.

· IARC (International Agency for Research on Cancer):

Substance is not listed.

· Canadian Domestic Substances List (DSL) (Substances not listed.):

(Cont'd. on page 10)

Page: 10/10

# Safety Data Sheet

# acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: December 07, 2018 Revision: December 07, 2018

Trade name: Ethyl Acetate

(Cont'd. of page 9)

Substance is listed.

# 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

# Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistant, Bio-accumulable, Toxic

vPvB: very Persistent and very Bioaccumulative OSHA: Occupational Safety & Health Administration

Flam. Liq. 2: Flammable liquids - Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

#### Sources

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

SDS Prepared by:

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Website: www.chemtelinc.com

# FLINN SCIENTIFIC, INC. Safety Data Sheet (SDS)

SDS #: 326.50

Revision Date: March 25, 2014

# SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

# **Ethyl Alcohol Solution, 10%**

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word V

WARNING

Pictograms

#### **SECTION 2 — HAZARDS IDENTIFICATION**

Hazard class: Flammable liquids (Category 3). Flammable liquid and vapor (H226). Keep away from heat, sparks, open flames, and hot surfaces. No smoking (P210).

Hazard class: Acute toxicity, oral and dermal (Category 5). May be harmful if swallowed or in contact with skin (H303+H313).

Hazard class: Serious eye damage or irritation (Category 2B). Causes eye irritation (H320).

Addition of denaturant makes the product poisonous. Cannot be made nonpoisonous.





SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Ethyl alcohol Isopropyl alcohol Methyl alcohol Mcthyl isobutyl ketone Water	64-17-5 67-63-0 67-56-1 108-10-1 7732-18-5	$C_2H_5OH$ $C_3H_8O$ $CH_3OH$ $C_6H_{12}O$ $H_2O$	46.07 60.10 32.04 100.16 18.00	8-9% 1% 1% 0.1 90%

# **SECTION 4 — FIRST AID MEASURES**

Call a POISON CENTER or physician if you feel unwell (P312).

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305+P351+P338). If eye irritation persists: Get medical advice or attention (P337+P313).

If on skin (or hair): Immediately remove all contaminated clothing. Rinse skin with water (P303+P361+P353).

If swallowed: Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

# **SECTION 5 — FIRE FIGHTING MEASURES**

Class II combustible liquid.

When heated, releases flammable fumes.

In case of fire: Use a tri-class dry chemical fire extinguisher (P370+P378).

NFPA CODE

H-1 F-2

R-0

# SECTION 6 — ACCIDENTAL RELEASE MEASURES

Remove all ignition sources and ventilate area. Contain the spill with sand or other inert absorbent material and deposit in a sealed bag or container. See Sections 8 and 13 for further information.

FLINN SCIENTIFIC, INC.

Safety Data Sheet

Ethyl Alcohol Solution, 10%

**SDS #**: 326.50

Revision Date: March 25, 2014

# **SECTION 7 — HANDLING AND STORAGE**

Flinn Suggested Chemical Storage Pattern: Organic #2. Store with alcohols, glycols, amines and amides. Keep container tightly closed (P233). Keep cool (P235).

# SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264). Exposure guidelines: (as ethyl alcohol) PEL 1000 ppm (OSHA), Ceiling 1000 ppm (ACGIH)

# SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Clear liquid. Alcohol odor.

# SECTION 10 — STABILITY AND REACTIVITY

Shelf life: Excellent, if stored safely.

# SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Eye irritation, nausea, dizziness, headache.

Chronic effects: Liver damage, reproductive, teratogenic effects,

carcinogen.

Target organs: Eyes, skin, central nervous system, liver, reproductive system.

ORL-RAT LD<sub>50</sub>: 7060 mg/kg (as ethyl alcohol)

IHL-RAT LC<sub>50</sub>: 20,000 ppm/10H (as ethyl alcohol)

SKN-RBT LD<sub>50</sub>: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

# **SECTION 12 — ECOLOGICAL INFORMATION**

Data not yet available.

#### SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #26b is one option.

#### **SECTION 14 — TRANSPORT INFORMATION**

Flammable Liquids, N.O.S. (Contains Ethyl Alcohol). Flammable Liquid, 3. UN1993, PG II.

N/A = Not applicable

# SECTION 15 — REGULATORY INFORMATION

Not listed.

# SECTION 16 — OTHER INFORMATION

This Safety Data Sheet (SDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific, Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of Flinn Scientific, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

Consult your copy of the *Flinn Science Catalog/Reference Manual* for additional information about laboratory chemicals. Revision Date: March 25, 2014

Section 1

Chemical Product and Company Information



5100 West Henrietta Rd PO Box 92912 Rochester, NY 14692-9012 Tel: (800) 962-2660 Phone Number (800) 424-9300

For laboratory use only.

Not for drug, food or household use.

Product ETHYL ALCOHOL, DENATURED, ANHYDROUS

Synonyms Denatured Aicohol / Ethyl Alcohol Anhydrous / Ethanol

Section 2 Hazards Identification

Signal word: DANGER

Pictograms: GHS02 / GHS06 / GHS07 / GHS08

Target organs: Eyes, Central nervous system, Liver, Kidneys.









Flammable liquid (Category 2)
Acute toxicity, oral (Category 3)
Acute toxicity, dermal (Category 3)
Acute toxicity, inhalation (Category 3)
Eye irritation (Category 2B)
STOT-SE (Category 2)
STOT-SE (Category 3)

#### GHS Label information: Hazard statement:

H225: Highly flammable liquid and vapour.

H301: Toxic if swallowed,

H311: Toxic in contact with skin.

H319: Causes serious eye irritation.

H331: Toxic if inhaled.

H336: May cause drowsiness or dizziness.

H371: May cause damage to organs.

#### Precautionary statement:

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233+P235: Keep container tightly closed. Keep cool.

P240: Ground/bond container and receiving equipment.

P241: Use explosion-proof electrical/ventilating/lighting equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

P260: Do not breathe mist/vapours/spray.

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310; IF SWALLOWED; Immediately call a POISON CENTER or doctor.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P308+P311: IF exposed or concerned: Call a POISON CENTER or doctor.

P312: Call a POISON CENTER or doctor if you feel unwell. P337+P313: If eye irritation persists: Get medical attention.

P361+P364: Take off immediately all contaminated clothing and wash it before reuse.

P370+P378: In case of fire: Use dry chemical, alcohol foam, carbon dioxide or water spray to extinguish.

P403+P405: Store in a well-ventilated place. Store locked up.

P501: Dispose of contents/container to a licensed chemical disposal agency in

accordance with local/regional/national regulations.

Ca Prop 65 - This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Chemical Name	CAS#	%	EINECS	TENEDO TENEDO
Ethyl alcohol sopropyl alcohol Aethanol	64-17-5 67-63-0 67-56-1	90.4% 5.0% 4,5%	200-578-6 200-661-7 200-659-6	

**INGESTION:** MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vemiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY BE HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY BE HARMFUL IF ABSORBED THROUGH SKIN. CAUSES SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

# Section 5 Section Fighting Measures."

Suitable Extinguishing Media: Carbon dioxide, dry chemical, dry sand, alcohol foam.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Vapors formed from this product are heavier than air and may travel along the ground to a distant source of ignition and flash back instantly. Flame may not be visible in daylight.

# Section 6 Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Remove all sources of ignition. Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

# Section 7 Handling & Storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray ocmist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from ignition sources.

Section 8 Exposure Controls / Personal Protection Chemical Name ACGIH (TLV) **Exposure Limits:** OSHA (PEL) NIOSH (REL) Ethanol STEL: 1000 ppm / 1880 mg/m3(A3) TWA: 1000 ppm / 1900 mg/m<sup>3</sup> TWA: 1000 ppm / 1900 mg/m<sup>3</sup>

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

# Section 9 Physical & Chemical Properties

Appearance: Clear, colorless liquid, Odor: Mild characteristic odor. Odor threshold: Data not available. pH: Data not available.

Melting / Freezing point: -114°C (-173°F)\*

Boiling point: 78°C (172.4°F)\* Flash point: 12.7°C (55°F) TCC Evaporation rate (Butyl acetate = 1): 4.1\* Flammability (solid/gas): Data not available, Explosion limits: Lower / Upper: 3.3% / 19.0% Vapor pressure (mm Hg): 44.6 mm @ 20°C\*

Vapor density (Air = 1): 1.59\* Relative density (Specific gravity): 0.794°C @ 60°F\*

Solubility(ies): Soluble in water.

Partition coefficient: (n-octanol / water): Low Pow: -.32

Auto-ignition temperature: 363°C (685°F)

Decomposition temperature: Data not available.

Viscosity: Data not available. Molecular formula: Mixture Molecular weight: Mixture

\*[Pure Ethanol] **4** 

#### Section 10 Stability & Reactivity

Chemical stability: Stable Hazardous polymerization: Will not occur. Conditions to avoid: Excessive temperatures, heat, sparks, open flame and other sources of ignition.

Incompatible materials: Contact with acetyl chloride and a wide range of oxidizing agents may react violently. Vapors may form flammable mixtures with air.

Hazardous decomposition products: Oxides of carbon.

#### Section 11 ...... Surface logical information

Acute toxicity: Oral-rat LD50: 7060 mg/kg; Inhalation-rat LC50: 124.7 mg/l/4hours [Ethanol]

Skin corrosion/irritation: Skin-rabbit - Slight irritant, Serious eye damage/irritation: Eyes-rabbit - Severe irritant. Respiratory or skin sensitization: Data not available

Germ cell mutagenicity: Data not available

Carcinogenity: Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC classified: Group 3: Not classifiable as to its carcinogenicity to humans. [Isopropanol]

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. Reproductive toxicity: Data not available

STOT-single exposure: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

STOT-repeated exposure: Data not available Aspiration hazard: Data not available

Potential health effects:

Inhalation: Inhalation may cause dizziness, drowsiness, nausea, vomiting, inability to concentrate and irritation of the throat. Ingestion: Ingestion causes dizziness, drowsiness, decreased reaction, euphoria, nausea, vomiting, staggering gait and coma.

Skin: Contact with skin causes irritation defatting on prolonged contact.

Eyes: Contact with eyes may cause blindness.

Signs and symptoms of exposure: See Potential health effects above.

Additional information: RTECS #: KQ6300000 [Ethanol]

# Settlore 2 Secological information Me

Toxicity to fish: Oncorhynchus mykiss (fish, fresh water), LC50 = 11,200 mg/l/24 hours [Ethanol]

Toxicity to daphnia and other aquatic invertebrates: Daphnia magna (Crustacia), EC50 = 10,800 mg/l/24 hours [Ethanol, 99.8% pure]

Toxicity to algae: Chlorella pyrenoidosa (Algae), EC50 = 9,310 mg/l/growth rate [Ethanol, absolute] Persistence and degradability: No data available Mobility in soil: No data available

Bioaccumulative potential: No data available PBT and vPvB assessment: No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal 

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

Transport information UN/NA number: UN1170

Shipping name: Ethanol Hazard class: 3 Packing group: II

Exceptions: Limited quantity equal to or less than 1 L

ERG Guide # 127

Reportable Quantity: 5,000 lbs (2270 kg) Marine pollutant: No

Section 15 June 15 Regulatory Information A chemical is considered to be listed if the CAS number

Ist.							
Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	WHMIS Classification	
Ethanol Methanol Isopropanol	Listed Listed Listed	Not listed 5,000 lbs. Not listed	D001 U154 Not listed	Listed Listed Listed	Not listed Not listed Not listed	82; D2B 82; D1B; D2A; D2B 82; D2B	

# Additional information 30%

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT. Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.

> Revision Date: October 2, 2013 Supercedes: February 26, 2011



# SAFETY DATA SHEET

Section 1.	Identification
Bullion Market Control	EVDO WE'

Product name : EXPO White Board Care

Material uses : Cleaning solutions.

Manufacturer : Newell Brands, Inc.

6655 Peachtree Dunwoody Road Sandy Springs, GA 30328

USA

800-323-0749

Emergency telephone number (with hours of operation)

: CHEMTREC (U.S. and Canada) 1-800-424-9300

# Section 2. Hazards identification

OSHA/HCS status

: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture

: Not classified.

**GHS label elements** 

Signal word : No signal word.

**Hazard statements**: No known significant effects or critical hazards.

**Precautionary statements** 

Prevention: Not applicable.Response: Not applicable.Storage: Not applicable.Disposal: Not applicable.

**Hazards not otherwise** 

classified

: None known.

# Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number	
(2-methoxymethylethoxy)propanol	≤3	34590-94-8	

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

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# Section 4. First aid measures

#### **Description of necessary first aid measures**

**Eye contact**: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Get medical attention if irritation

occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get

medical attention if symptoms occur.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur.

Ingestion : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position

comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

# Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

# Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

# See toxicological information (Section 11)

# Section 5. Fire-fighting measures

# **Extinguishing media**

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

media

: None known.

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products

 Decomposition products may include the following materials: carbon dioxide

carbon monoxide

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable

training.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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# Section 6. Accidental release measures

# Personal precautions, protective equipment and emergency procedures

# For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

#### **Environmental precautions**

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

# Methods and materials for containment and cleaning up

# **Small spill**

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

# Large spill

: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

#### Precautions for safe handling

**Protective measures** 

Advice on general occupational hygiene : Put on appropriate personal protective equipment (see Section 8).

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# Section 8. Exposure controls/personal protection

#### Control parameters

Occupational exposure limits

(2-methoxymethylethoxy)propanol

ACGIH TLV (United States, 3/2016). Absorbed through skin.

TWA: 100 ppm 8 hours. TWA: 606 mg/m<sup>3</sup> 8 hours. STEL: 150 ppm 15 minutes. STEL: 909 mg/m<sup>3</sup> 15 minutes.

OSHA PEL 1989 (United States, 3/1989).

TWA: 100 ppm 8 hours. TWA: 600 mg/m<sup>3</sup> 8 hours. STEL: 150 ppm 15 minutes. STEL: 900 mg/m<sup>3</sup> 15 minutes.

Absorbed through skin.

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# Section 8. Exposure controls/personal protection

NIOSH REL (United States, 10/2013).

Absorbed through skin. TWA: 100 ppm 10 hours. TWA: 600 mg/m³ 10 hours.

STEL: 150 ppm 15 minutes. STEL: 900 mg/m³ 15 minutes. OSHA PEL (United States, 6/2016).

Absorbed through skin.

TWA: 100 ppm 8 hours. TWA: 600 mg/m<sup>3</sup> 8 hours.

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

**Skin protection** 

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

# Section 9. Physical and chemical properties

# **Appearance**

Physical state : Liquid.

Color : Clear. Colorless.

Odor : Not available.

Odor threshold : Not available.

pH : 9 to 10

Melting point: Not available.Boiling point: Not available.

Flash point : Closed cup: 61 to 93.3°C (141.8 to 199.9°F)

Burning time : Not applicable.

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# Section 9. Physical and chemical properties

**Burning rate** : Not applicable. **Evaporation rate** : Not available. Flammability (solid, gas) : Not available. Lower and upper explosive : Not available.

(flammable) limits

Vapor pressure : Not available. Vapor density : Not available. **Relative density** : Not available. Solubility : Not available. : Not available. Solubility in water Partition coefficient: n-: Not available.

octanol/water

**Auto-ignition temperature Decomposition temperature** 

: Not available. : Not available. : Not available.

**Viscosity** 

SADT

: Dynamic (room temperature): 1.4 to 1.6 mPa·s (1.4 to 1.6 cP)

**Aerosol product** 

# Section 10. Stability and reactivity

: No specific test data related to reactivity available for this product or its ingredients. Reactivity

**Chemical stability** : The product is stable.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

**Hazardous decomposition** products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **Section 11. Toxicological information**

# Information on toxicological effects

# **Acute toxicity**

No known significant effects or critical hazards.

# Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
(2-methoxymethylethoxy) propanol	Eyes - Mild irritant	Human		8 milligrams	-
	Eyes - Mild irritant	Rabbit		24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-

#### Sensitization

No known significant effects or critical hazards.

#### **Mutagenicity**

No known significant effects or critical hazards.

#### Carcinogenicity

EXPO White Board Care

# Section 11. Toxicological information

No known significant effects or critical hazards.

# Reproductive toxicity

No known significant effects or critical hazards.

# **Teratogenicity**

No known significant effects or critical hazards.

# Specific target organ toxicity (single exposure)

Name	Children Co. Co.	Route of exposure	Target organs
(2-methoxymethylethoxy)propanol	Category 3	Not applicable.	Respiratory tract irritation

# Specific target organ toxicity (repeated exposure)

No known significant effects or critical hazards.

#### **Aspiration hazard**

No known significant effects or critical hazards.

Information on the likely routes of exposure

: Not available.

# Delayed and immediate effects and also chronic effects from short and long term exposure

# **Short term exposure**

Potential immediate : Not available.

effects

Potential delayed effects: Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

# Potential chronic health effects

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

# **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Route	ATE value
Dermal	80785.8 mg/kg

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# Section 12. Ecological information

#### **Toxicity**

No known significant effects or critical hazards.

# Persistence and degradability

No known significant effects or critical hazards.

#### Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
(2-methoxymethylethoxy) propanol	0.004	-	low

#### Other adverse effects

: No known significant effects or critical hazards.

# Section 13. Disposal considerations

# **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and

# Section 14. Transport information

		· · · · · · · · · · · · · · · · · · ·		
DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
	-		-	-1
-	-	-	-	-
	-	-:	-	
No.	No.	No.	No.	No.
-	-	-	-	-
	Classification Not regulated.  -	Classification  Not regulated.   - No. No.	Classification       Classification         Not regulated.       Not regulated.         -       -         -       -         No.       No.    No. Classification Not regulated. Not regulated No. No. No. No. No.	Classification     Classification       Not regulated.     Not regulated.       -     -       -     -       No.     No.       No.     No.       No.     No.       Classification     Not regulated.       Not regulated.     Not regulated.       -     -       -     -       No.     No.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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# Section 15. Regulatory information

U.S. Federal regulations : United States inventory (TSCA 8b): All components are listed or exempted.

**SARA 311/312** 

Classification : Not applicable.

# Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
(2-methoxymethylethoxy)propanol	2	No.	No.	No.	Yes.	No.

# California Prop. 65

This product does not contain Chemicals known to State of California to cause cancer, birth defects, or reproductive harm.

#### Canada

WHMIS (Canada) : Class D-2B: Material causing other toxic effects (Toxic).

**Canadian lists** 

Canadian NPRI : The following components are listed: Propylene glycol butyl ether

**CEPA Toxic substances**: None of the components are listed.

Canada inventory : Not determined.

# Section 16. Other information

# **History**

Date of issue/Date of : 10/17/2019

revision

Date of previous issue : 10/9/2019

Version : 2

Prepared by : Product Safety.

**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

UN = United Nations

Indicates information that has changed from previously issued version.

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations. The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations. The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

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